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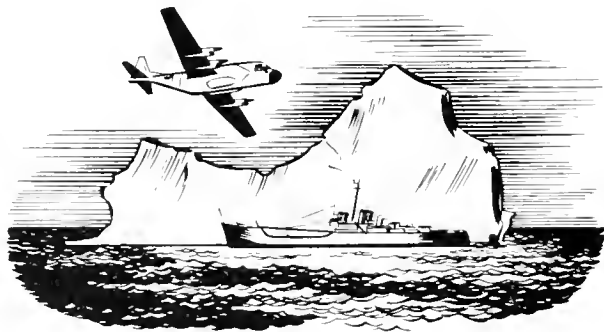
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REPORT No. 19 CG 373-19

OCEANOGRAPHY OF THE GRAND BANKS REGION OF NEWFOUNDLAND IN 1967

Charles W. Morgan





Floyd M. Soule, Capt., USCGR

(Photo. Charlotte Joseph)

Capt. Floyd M. Soule, USCGR (Ret.)

(1901–1968)

Capt. Floyd M. Soule, USCGR (Ret.), the oceanographer and chief scientist for the International Ice Patrol from 1933 through 1963, died at Woods Hole, Mass., on February 15, 1968. He was born July 19, 1901, in Ripon, Wis. and received a B.S. in electrical engineering from George Washington University in 1927. He then entered Government service as a junior physicist with the National Bureau of Standards. In 1918 he became an observer for the Department of Terrestrial Magnetism of the Carnegie Institution of Washington. He joined Carnegie's oceanographic expedition in 1928 and made many of the early observations of the upwelling along the edge of the North Equatorial Current in the Pacific. In 1931 he joined an expedition of the submarine NAUTILUS exploring the waters beneath the Arctic icepack.

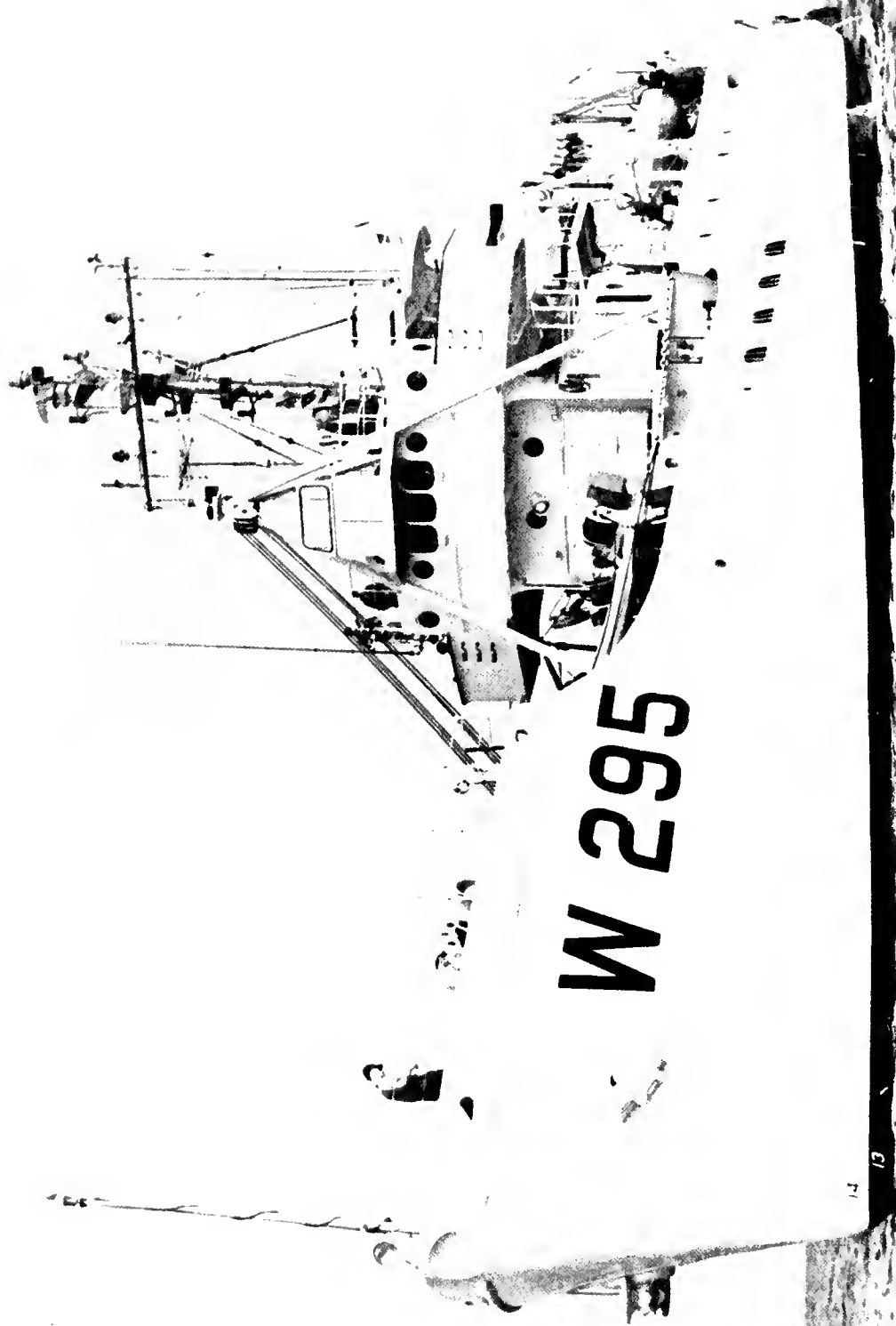
In 1933 Floyd Soule was named senior physical oceanographer of the U.S. Coast Guard and as such assumed direct responsibility of all oceanography in support of the International Ice Patrol. During the next 8 years he participated in a number of expeditions to Davis Strait and the Labrador Sea on board the cutters MARION and GENERAL GREENE, and the area east of the Grand Banks was surveyed on an operational basis that yielded dynamic topographic charts within hours of the final observation. He assisted in the development of the shipboard salinity bridge, the beginning of modern oceanographic technology.

With the advent of World War II, Floyd Soule accepted a commission as lieutenant commander in the U.S. Coast Guard Reserve and served as operations officer under Adm. Edward H. Smith on the Greenland Patrol. His knowledge of arctic and subarctic conditions and his "rare ability to translate academic knowledge into action" earned for Commander Soule the Bronze Star from the U.S. Navy.

After the war, he resumed his position as senior civilian physical oceanographer of the Coast Guard, but remained in the U.S. Coast Guard Reserve and was promoted to captain in 1956. The post-war years saw Captain Soule participating in Ice Patrol cruises on board the Coast Guard Cutter EVERGREEN and as a research associate of the Woods Hole Oceanographic Institution.

He retired in 1963 after completing a series of comprehensive ocean current charts of the iceberg areas of the North Atlantic Ocean on which iceberg drift predictions and warnings to shipping are based. He also saw the expansion of the U.S. Coast Guard into other areas of oceanography. On his retirement the U.S. Treasury Department presented him its highest honor, the Albert Gallatin Award.

Captain Soule was a pioneer in the field of oceanography. He was an astute and meticulous scientist. His life work was given to the International Ice Patrol. He made significant scientific achievements but had the even greater satisfaction of seeing his work used for the benefit of man.



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Abstract

Three cruises conducted off the Grand Banks of Newfoundland in support of International Ice Patrol in April, May, June, and July of 1967 obtained measurements of temperature and salinity from a salinity/temperature/depth recorder and from Nansen bottle observations. These data were used to draw temperature and salinity profiles across standard sections, and to calculate surface dynamic topography and volume flow through the sections. Dynamic calculations were based on a reference level of 1,000 meters. The cruises occupied standard section A3 a total of 12 times during the ice season and the data indicated that the volume flow of the Labrador Current showed large fluctuations with time, reaching a maximum of 11 sverdrups ($10^6 \text{m}^3 \text{sec}^{-1}$) in early May. The study of iceberg drift and deterioration, which was initiated in 1964, was also continued.

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Oceanography of the Grand Banks Region of Newfoundland in 1967

By CHARLES W. MORGAN, U.S. Coast Guard

INTRODUCTION

Ice Patrol cruises in 1967 continued the practice initiated in 1966, in that three section surveys replaced the old area survey method (Wolford, in press). Calibrating the normal topography is the term for comparing the surface dynamic heights at these three standard sections with the charts of average monthly surface dynamic topography off the Grand Banks prepared by Soule (1964). Figures 1, 3, and 5 show the standard sections occupied. The reason for the change to calibration surveys is that research shows large short-term (1- to 2-week) fluctuations in the volume flow of the Labrador Current, and therefore, calibration type surveys, frequently repeated, give better data for the prediction of iceberg movement in the Grand Banks area, as well as reduce the ship time necessary for routine surveying.

The time required for a calibration survey varies from 4 to 7 days. This compares with about 7 days for the 1965 cruises which used a modified area survey and the pre-1965 cruises which required about 14 days for an area survey.

NARRATIVE

General

The USCGC EVERGREEN (WAGO-295), a 180-foot oceanographic vessel, made three cruises to the Grand Banks in the spring and summer of 1967. Real-time oceanographic support was furnished to Commander, International Ice Patrol on the first two cruises. The third cruise was a post-season research cruise in late July.

The first cruise lasted from 28 March to 1 May 1968. Weather, sea, and ice conditions were bad, and on occasion forced the CGC EVERGREEN to heave to. During 2 to 8 April the CGC EVERGREEN made a calibration survey of standard sections A2, A3, and A4, occupying stations 9849-9893. After completion of the survey the ship reoccupied standard section A3 on 9 April with stations 9884-9890. The period from 10 to 21 April was devoted to iceberg drift studies and to putting in to Saint John's and Argentia, Newfoundland. A time-series study of standard section A3 commenced on 22 April with station 9891. This section was occupied four times during the time-series study. A pair of reference markers, which were later lost in a storm before the fourth time-series occupation, marked the western end of the section. During the reoccupation on 25 April, expendable BT casts were made every mile to define details of temperature structure. The STD shorted out during station 9911 necessitating the use of Nansen casts for the rest of the cruise. On 27 April the CGC EVERGREEN completed station 9916 and set sail for Boston with the first cruise of the season behind her.

After departing Boston on 8 May for the second cruise, the CGC EVERGREEN began a survey of standard section A2, A3, and A4 on 12 May with station 9917. Completing station 9949, the calibration survey was finished on 15 May, and the CGC EVERGREEN commenced an iceberg drift study which lasted until 20 May. A second time-series study was then initiated on standard section A3 with reference markers again placed at the western end of the section. The four occupations of

the section lasted through 24 May and consisted of stations 9954-9988. The STD failed on station 9980. On 30 May another iceberg-drift project began, and this lasted through 4 June when CGC EVERGREEN started the final calibration survey of the season. This calibration survey lasted through 7 June and consisted of stations 9997-10023. On 7 June CGC EVERGREEN set sail for Boston, her operational ice patrol duties finished.

The research cruise was to have consisted of standard sections 1 and 4 and an iceberg-drift project. However, due to a thrust bearing failure, the cruise only occupied standard section 4 from 25-28 July with stations 10024-10040.

Additional Projects

The iceberg drift and deterioration project was continued in the spring of 1967 with studies on four icebergs over time intervals ranging from about 1 to 4 days on 13-14 April, 19-21 April, 16-19 May and 30 May to 4 June. The CGC EVERGREEN tracked the icebergs and deep and shallow drogues with reference to an anchored buoy, photomapped the icebergs, and recorded wind data. These data will be compiled and published in a separate report.

Personnel

The oceanographic work of the first cruise was under direction of the Field Party Chief, LCDR Kenneth M. Palfrey, USCG. Members of the Field Party were Chief Aerographer's Mate Dennis L. Noble, Sonarman First Class Edward S. Olszewski, Jr., Aerographer's Mate First Class David D. Lockhart, Sonarman Second Class Curtis D. Gelder, Sonarman Second Class John G. Colantoni, and Aerographer's Mate Second Class Michael J. Sundquist. The Field Party Chief for the second cruise was Mr. Thomas C. Wolford, Oceanographer. Members of the Field Party were Sonarman First Class William T. O'Brien, Aerographer's Mate Second Class Peter R. San Jule, Aerographer's Mate Third Class Kenneth D. Thoeni, Seaman Aerographer's Mate Raymond M. Patmos, Seaman Aerographer's Mate Danny L. Allen and a student trainee, Mr. Donald P. Massa. The Research Cruise was also under the direction of Mr. Thomas C. Wolford, who was assisted

by Lieutenant James M. Seabrooke, USCG. The Field Party consisted of Senior Chief Sonarman Robert C. Reid, Sonarman Second Class Curtis D. Van Gelder, Sonarman Second Class John G. Colantoni, Yeoman Second Class Dwight E. Olson, and a student trainee, Mr. Richard F. Johnson.

Instrumentation

The primary sampling instrument for the stations occupied during the 1967 cruises was a Bisset-Berman Model 9006N salinity/temperature/depth (STD) recorder. The readings of the STD were corrected by comparison with Nansen bottle samples taken on the STD wire.

The teflon-lined Nansen bottles used were from Ballauf Manufacturing Co. and United Machine Co. The deep sea reversing thermometers were manufactured by Richter and Wiese, GM Manufacturing Co., Kahl Scientific Instrument Corp., and Walter H. Kessler Co., Inc. The bathythermograph system used was the Sippican Corp. expendable BT. A model 6220 Bisset-Berman salinometer determined salinities of water samples taken by Nansen casts.

The following presents a summary of representative statistics on the salinity and temperature instruments:

<i>Instrument</i>	<i>Accuracy</i>	<i>Standard deviation</i>
Reversing thermometers	$\pm 0.01^{\circ}\text{C}^1$	$\pm 0.011^{\circ} - \pm 0.016^{\circ}\text{C}^3$
Salinometers	$\pm 0.01\text{‰}^3$	$\pm 0.005\text{‰}$ (Precision) ³
STD		
Temperature	$\pm 0.05^{\circ}\text{C}^4$	$\pm 0.060^{\circ} - 0.099^{\circ}\text{C}^5$
Salinity	$\pm 0.03\text{‰}^4$	$\pm 0.018 - 0.037\text{‰}^5$
Depth	$\pm 0.5\text{M}^4$	

¹ Sverdrup et al. (1942).

² Kollmeyer et al. (1965).

³ Morse (1963).

⁴ U.S. Naval Oceanographic Office (1965).

⁵ Unpublished Coast Guard data (1967).

An Alpine Precision Echo Sounder Recorder was used to measure depth to the bottom. A near surface temperature recorder installed on the CGC EVERGREEN was erratic in operation when compared with other means of obtaining sea surface temperature. One of the problems was that the sensor was located in a sea chest.

An AN/GV5-1 ruby laser rangefinder pro-

vided ranges to icebergs for photomapping. The anchored reference buoy used in the iceberg-drift studies was a Geodyne Corp. toroidal fiberglass buoy equipped with a mast and an antenna array, and moored with a bridal, swivel, ballast ball, 120 fathoms of 1-inch braided nylon, 1 shot (15 fathoms) of ½-inch anchor chain and a 75-pound Danforth anchor. A SST-119X solid state radar transponder manufactured by Motorola Inc. was attached to the reference buoy to facilitate tracking of the iceberg during drift studies. The drogues used in the iceberg-drift project consisted of 28-foot cargo parachutes suspended at 10 or 70 meters depth from a buoy made of inner-tubes and a bamboo pole with a radar reflector and a light. A similar type of moored buoy acted as a reference marker in some of the iceberg-drift studies, and marked the western end of standard section A3 in the time-series studies.

Loran A and C, visual fixes, celestial fixes, and dead reckoning were the navigational methods used. A bottom current speed-direction recorder manufactured by Cm² Company was used on some of the iceberg-drift studies.

A PDP-8/S digital computer manufactured by the Digital Equipment Corp. was used to process all observed data at sea. The temperature and salinity data at each station were processed by computer using methods discussed by O'Hagen (1964), Morse and O'Hagen (1964) and Kollmeyer (1964) to obtain values of sigma-t and dynamic height anomaly at desired depths. Using the method discussed by Kollmeyer (1967), the volume flow was computed with respect to the 1,000-meter level through solenoids which subdivide a property section into small rectangles. The average solenoidal temperature and salinity were also calculated. When the STD recorder was inoperative, the computer was used to correct reversing thermometers, determine thermometric depth, and calculate salinity from salinometer data.

The data presented in the Tables of Oceanographic Data are from computer printouts returned to the Oceanographic Unit from the National Oceanographic Data Center (NODC), Washington, D.C. Interpolation to standard depths has been done by NODC.

DISCUSSION

In general the physical oceanography of the Grand Banks area during the spring and summer of 1967 appears to follow the pattern of previous years. Figures 2, 4, and 6 are charts of the average dynamic topography of the surface in the area off the Grand Banks for April, May, and June, based on 22 years' observations (Soule, 1964). In these normal charts the steepest dynamic gradients have been smoothed somewhat in the averaging process. The charts indicate that, although the general circulation in the area remains basically the same, there are seasonal fluctuations in the current system. A conspicuous feature of the system, see figure 2, is the Labrador Current which flows southward along the eastern edge of the Grand Banks toward the area of the Tail of the Banks, and then dies out as it continues westward or recurves to the northeast. A dynamic trough lies east of the Labrador Current; between this trough and the high dynamic stand of the meander-like intrusion of the Atlantic Current Water, mixed Atlantic-Labrador Current water flows northeastward. North of the Atlantic Current intrusion there is an eastward flow from further north.

During May, the normal surface topography exhibits an increase in dynamic height on the Banks as shown in figure 4. This is generally related to the arrival of less saline water associated with spring runoff and ice melt. The change in the dynamic height in the trough is less than the change on the Banks, so there is an increase in current speed in May. A second notable change, shown in figure 6, occurs in June when the dynamic trough tends to fill somewhat. This is associated with the recurvature of the water which was off the Banks in May, and it results in a lessening of the flow of the Labrador Current.

Figures 1, 3, and 5 are the charts of dynamic topography for the calibration surveys made in April, May, and June respectively. A comparison of the April survey and the normal topography shows a slight shift of the Labrador Current on the Grand Banks, and an apparent shift of the meander centered at 42° N. 45.5° W. toward the west. The calibration survey for May shows a strong crowding of the

contours toward the dynamic trough and a high dynamic stand on the Banks, inferring a strong Labrador Current with considerable flow over the northeast corner of the Banks west of section A2. The meander at the tail of the Banks appears to have shifted eastward. The semipermanent meander at 42° N. 45.5° W. appears to have shifted west of its normal position. In June the flow of the Labrador Current past section A3 appears about normal. However, at the Tail of the Banks a wide slow westward flow appears to have shifted the meander southward. There are indications that the semipermanent meander at 42° N. 45.5° W. was still some distance west of its normal position.

Temperature and salinity profiles for the standard section on the calibration surveys appear in figures 7 through 9. Differences in the bottom topography of the same sections are due to the navigational difficulty of reoccupying the exact same line of stations. Comparison of the profiles for section A2 shows a slight warming as the season progresses. This was accompanied by a slight freshening at depth and a spreading of less saline water from the Banks eastward. At section A3 the cold core of Labrador Current water was quite small in the first week of April. However, by the middle of May the size of the core, as well as the temperature of the North Atlantic Current water intrusion, had increased considerably. The final survey in June shows a slight decrease in the size of the Labrador Current water core. The salinity profiles at section A3 are characterized by a massive influx of fresher water from the Grand Banks onto the continental slope between April and May. This is generally attributed to spring melt and runoff from Newfoundland and Labrador. By June the water had become more saline again.

Proceeding further south to section A4 profiles, a core of Labrador Current water is noticeable on the edge of the Banks in April and May. By June, however, the profiles show that warming of water on the Grand Banks and mixing with the North Atlantic Current had caused a considerable rise in temperature. The salinity profile shows no well developed minimum core in April; however, in May a well developed core of less than 33.0‰ is evident.

The profile for June shows that the salinity had again increased.

Figures 10 through 21 show the results of the time-series observations of section A3. The left hand edges of the profiles of temperature, salinity, sigma-t and dynamic height are adjusted to a common base line running between $45-00$ N., $49-18$ W. and $44-00$ N., $49-40$ W. Comparison of the figures shows details in the time changes occurring throughout the season. These time-series studies indicate that very rapid changes were occurring in the structures of the water. It is not clear whether the observed changes were due to advection of water from the north, or tidal, or other wave effects.

The expendable bathythermograph profile across the Labrador Current at section A3 is shown in figure 22. An attempt to use this temperature profile with the interpolated salinity profile from stations 9907 to 9911 to compute volume flows gave unrealistic results. Making slight changes in the salinity values, which amounted to introducing turbulence into the salinity profile, and using the expendable bathythermograph data gave volume flows comparable to those computed from temperatures and salinity data from stations 9907 to 9911 alone. This indicates that perhaps spatial turbulence in the temperature and salinity profile tends to compensate in such a manner that the density profile remains fairly smooth.

Figures 23 and 24 show the dynamic topography and the temperature and salinity profiles from the research cruise. This profile extends into the Gulf Stream and shows temperature and salinity maximums of 26.3° C. and 36.72‰ in the vicinity of stations 10026 and 10027.

The water mass analysis, figure 25, shows the 20 year mean and the 1967 average characteristics of the Labrador Current, mixed, and Atlantic Current water masses. Volume flow, heat transport, salinity transport, average temperature and average salinity were computed for each station-depth solenoid using the methods described by Kollmeyer (1967). The volume flow, average temperature, average salinity, and minimum temperature of the Labrador Current were calculated for each section and are shown on a time-series plot in figures 26 through 29.

The Labrador Current, as differentiated from the Labrador Current Water Mass, is defined in this paper as follows. At section A2 it is the total southerly flow through the east-west leg and the total easterly flow through the north-south leg. At section A3 it is the total southerly flow west of the dynamic trough, and at section A4 it is the total westerly flow north of the North Atlantic Current. Since the above definitions are simple to use and do not require questionable subjective analysis, their use appears justified.

The total flow of the cold core of the Labrador Current as defined by Kollmeyer (1967) was also determined. The volume flow of this cold core, consisting of water less than 2°C . and 34.3‰, is indicated on the time-series plots by a dashed line. On these figures a dashed line is also used to indicate the minimum temperature observed while occupying each section.

Section A3 is the most interesting time series to examine in detail. Because the southward flow of the Labrador Current between the Grand Banks and the dynamic trough is usually quite well defined, it is also the most accurate. The 12 reoccupations of section A3 indicate that the Labrador Current undergoes rather large changes in a matter of days; for example a change in the volume flow of two sverdrups occurred over 2 days around 25 April. The cause of these fluctuations is still open to explanation. Besides the limitations of the geostrophic method, possibilities include tidal or internal wave effects, short-term variations in spring thaw and runoff, variations in the discharge of water from Hudson Bay (Kollmeyer, 1966), variations in the North Atlantic Current, and of course, instrument error or error in the selection of depth of no motion.

The general trend of volume flow at section A3 throughout the season conformed to that described by Smith (1937), namely an increase in volume flow between April and May due to a "spring freshet", and then a decrease in June. In 1967 the volume flow attained a record value of over 11 sverdrups on 13 May, and the average dynamic current between stations 9928 and 9929 were on the order of 3 knots. Unfortunately, the CGC EVERGREEN did not reoccupy section 3 just before or after 13 May. The wind for the 24 hours previous to

station 9929 was from the south and averaged 14 knots. This opposed the flow of the Labrador Current and would have caused an Ekman transport toward the east. Since the geostrophic approximation does not directly consider the wind-driven current, it is possible that the actual flow was less than the geostrophic flow. The volume flows for 22–27 April and 21–25 May indicate that there are, undoubtedly, accelerating forces.

Most of the contribution to the large volume flow came from solenoids between stations 9928 and 9929. The T-S diagram for station 9928, figure 30, is somewhat unusual. It shows that the water down to 20 meters was relatively warm and fresh, indicating it came from the Grand Banks. The water between 30 and 150 meters was cooler and fresher than normal Labrador Current water at the same depth; however, the salinity is the controlling factor and the water was less dense than normal. Between 200 and 350 meters the water appears to have characteristic temperatures and salinities of 1.75°C . and 33.85, somewhat colder, considerably fresher, and therefore, less dense than normal. Instabilities are evident in this depth interval. There was an abrupt change in the water properties between 250 meters and 265 meters. From 265 meters to 415 meters the water was considerably warmer, fresher, and less dense than normal. Below 475 meters the water had normal temperatures but was fresher and less dense. It is primarily the unusually low density of the water below 265 meters which caused the high dynamic stand of station 9928. Examination of the T-S curve for station 9929 in the dynamic trough shows that the water was colder and fresher than the normal mixed water type, and that the density was greater. It is this combination of unusually light water at station 9928 and slightly denser water at station 9929 that was the dynamic reason for the large volume flow on 13 May.

Comparison of the average temperature and salinity in the Labrador Current on 25 April and 13 May, figure 28, shows that although the temperature and salinity were similar on the two dates, the volume flow in May was larger by a factor of 3. The surface dynamic height with respect to the 1,000-decibar surface of the westernmost station, the trough station,

and the station just west of the trough, figure 31, shows again that the reason for the large volume flow on 13 May is that the water in the trough becomes denser while the water west of the trough becomes lighter.

Although the causes of the high-volume flow are dynamically obvious, the reasons for the conditions causing the dynamic stands at section A3 on 13 May are not clear. Recirculation of the Labrador Current south of section A3 and mixing probably formed the cold-salinity water responsible for the low dynamic stand at station 9929. The presence of unusually warm fresh water between 265 and 415 meters at station 9928 is difficult to explain. It may be that there was a cyclonic circulation and sinking of normal mixed water type from the 100-meter level. Smith (1937) gives examples in surface dynamic topographies of such recirculation. Even though such a recirculation may be possible, the sigma- t profile at section A3, figure 16, shows that such a recirculation, if it occurred on isentropic surfaces, probably took place well north of section A3.

The possibility that an error in the depth of no motion caused the large flow at section A3 on 13 May can be examined. Defant (1961), describes a method of determining the depth of no motion between two stations by examining the difference in dynamic height between the stations as a function of depth. The depth at which the difference in dynamic height is constant with depth is assumed to be a depth of no motion. Figure 32 shows that, by Defant's criteria, the depth of no motion is at least as deep as 1,500 meters. This would indicate that the flow is even greater than 11 sverdrups.

Examination of the time-series plot for the east-west leg of section A2 (fig. 26) shows that on 15 May the flow was at a minimum. This hardly agrees with the maximum at section A3 only 2 days previous. The net flow, with respect to the 700-decibar surface, between stations 9928 in section 3 and 9940 in section A2 was 8.1 sverdrups east-southeastward. This represents an average current of 4 cm/sec. The flow at right angles to this was, of course, indeterminate, but it is most likely that the east-southeastward flow represents the greater portion of the flow. It thus appears that most of the flow at the latitude of section A2 in May

spilled over the northeast corner of the Grand Banks west of the westernmost station in the section.

Previously unpublished results from a current meter attached 50 meters below a buoy moored by the Ice Patrol in position 44-53 N., 48-54 W., near the western end of section A3, in 1961 give support to the notion of large short-term changes in the Labrador Current in spite of reservations about the adequacy of the record obtained. The instrument failed to give reasonable readings of current direction, but did yield a readable record of current speed for a period of 48 days between 28 May and 15 July. Recently the speed record alone was read by eye in an effort to retrieve any usable data. Readings were made every 20 minutes, yielding 3,460 consecutive speed values. The average speed was 29.6 cm/sec, with maximum and minimum speeds of 64.2 and 6.5 cm/sec respectively.

The data after subjection to spectral analysis showed peaks in kinetic energy density at two points. Evidence of a slow-running clock in the instrument was seen in the fact that these peaks fit the inertial (17.0 hours) and the semidiurnal tidal (12.4 hours) periods when multiplied by a factor of 0.93. Thus it can be inferred that inertial and tidal periodicities can be expected in the flow along the eastern edge of the Grand Banks.

The time plot of the current record also revealed a marked 14- to 15-day periodicity, but the length of the record is far too short to draw any firm conclusions.

In summary, analysis of the data for 1967 has again shown the possibility of high frequency variability in the physical oceanography of this most interesting region where two major currents impinge upon each other. A part of the general problem of iceberg drift and deterioration must include not only better information on what periods of variability are significant in various areas of the region, but also understanding of the reasons for such variability.

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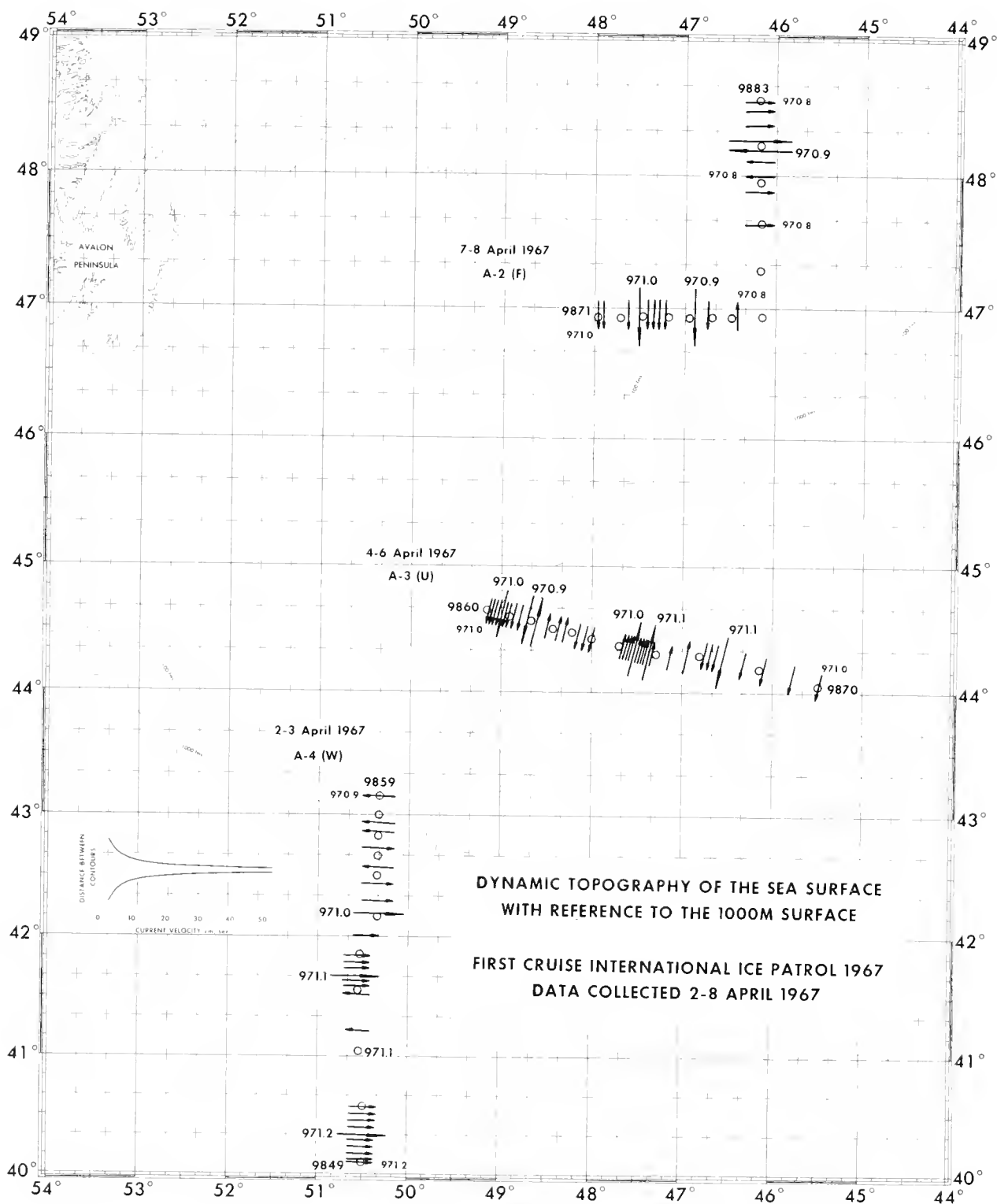


Figure 1. Calibration survey dynamic topography, 2-8 April 1967.

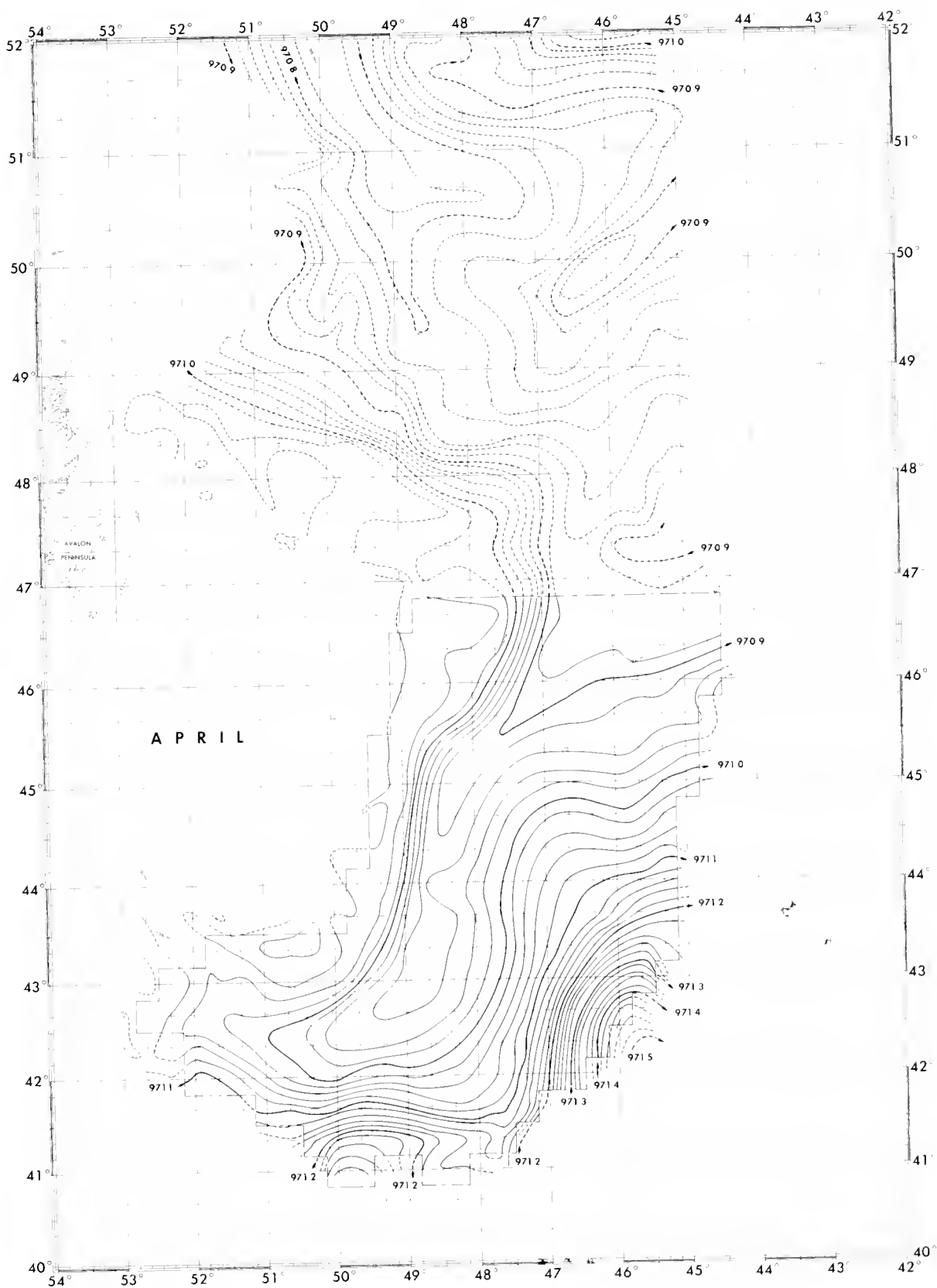


Figure 2. Normal dynamic topography, April.

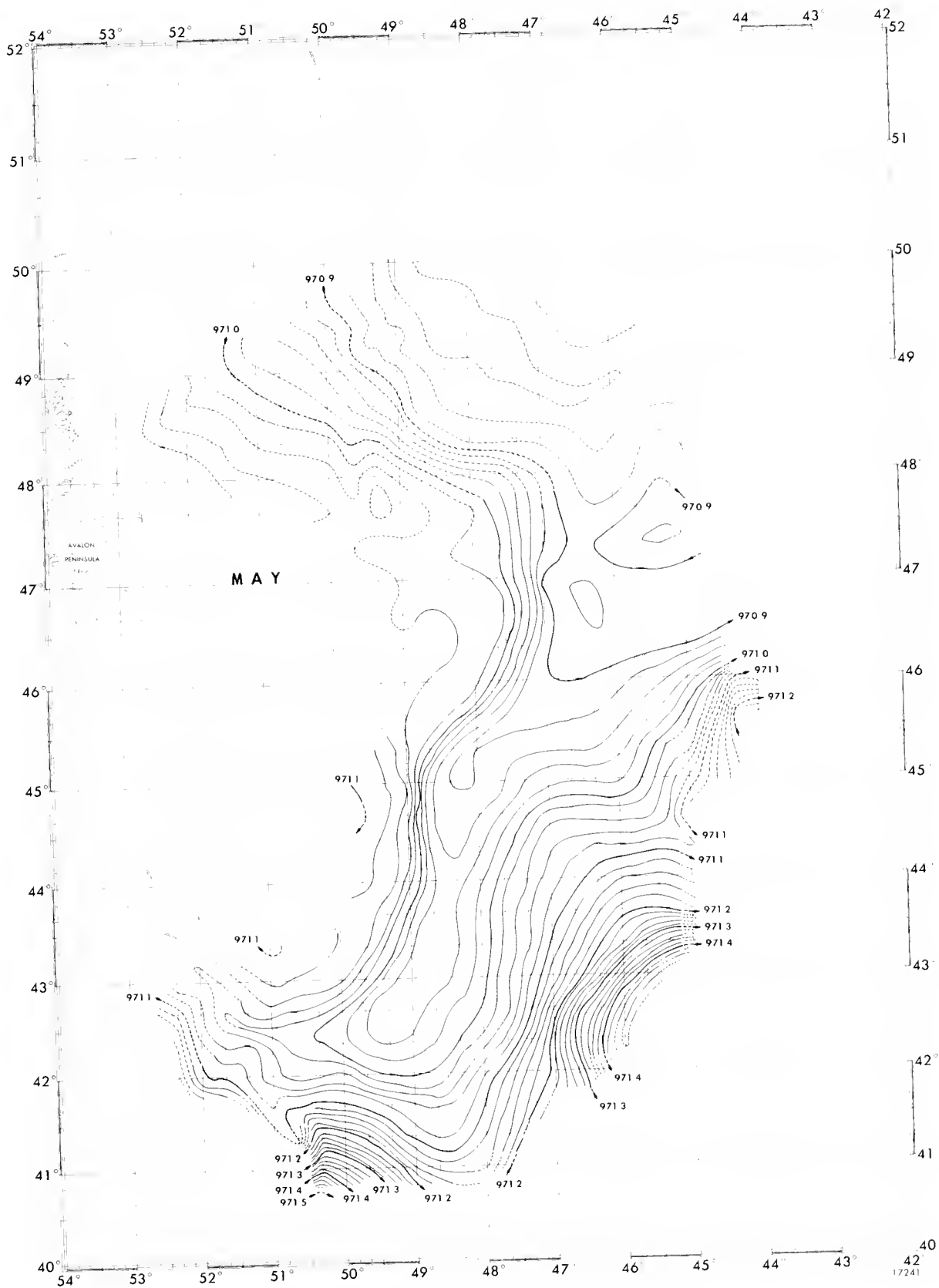
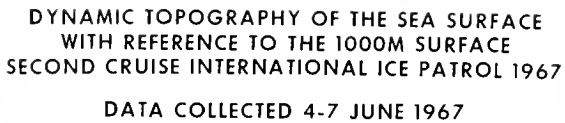


Figure 4. Normal dynamic topography, May.



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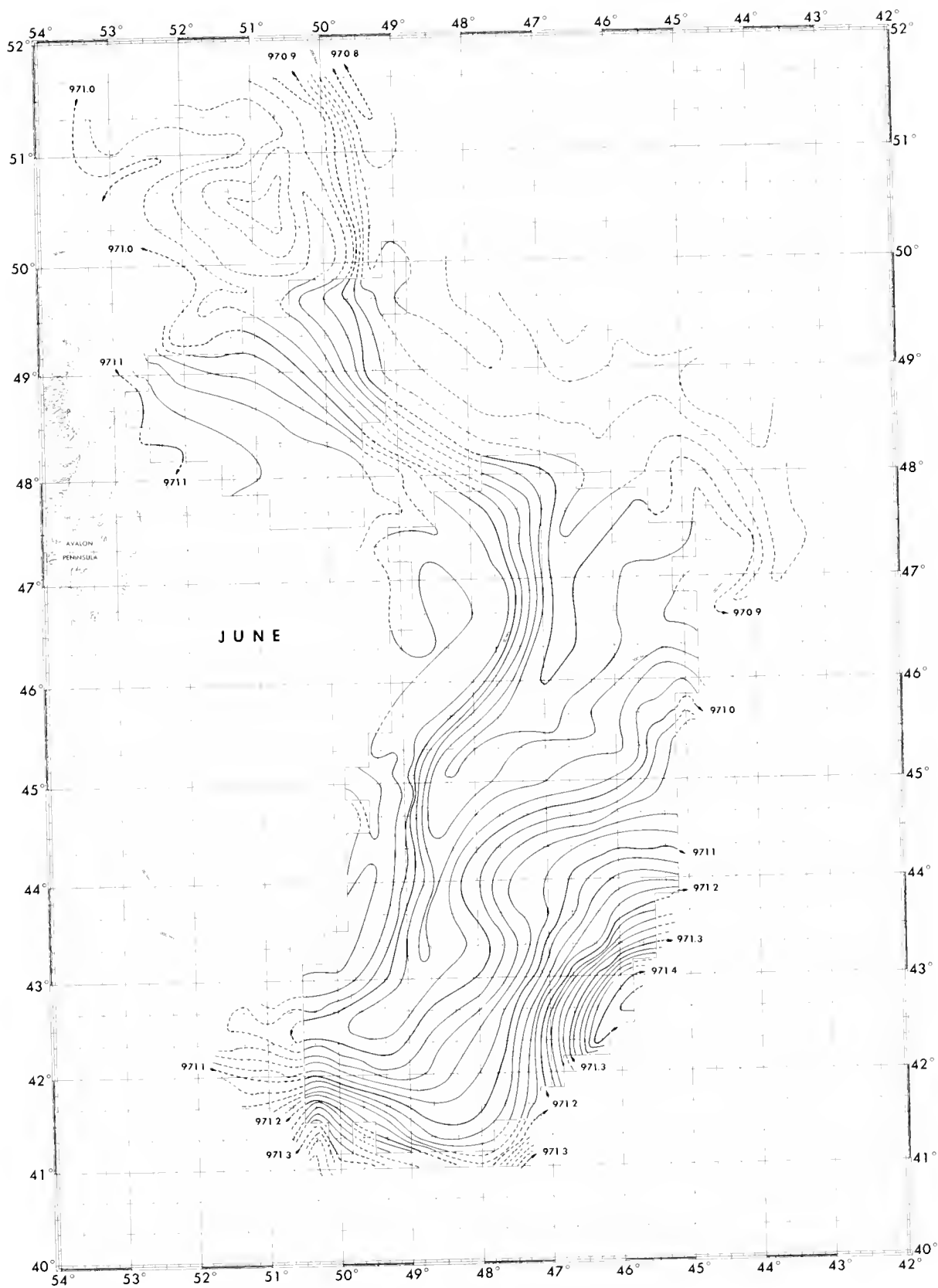


Figure 6. Normal dynamic topography, June.

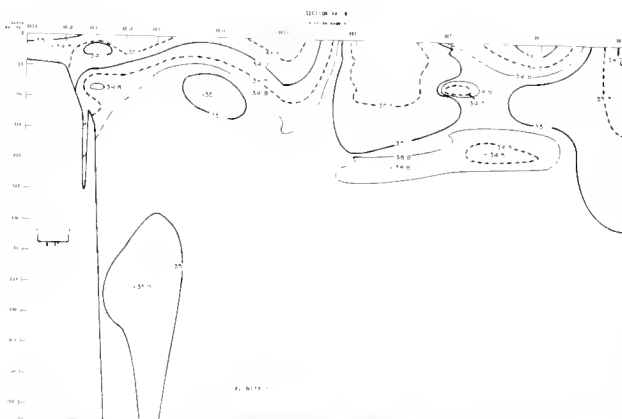
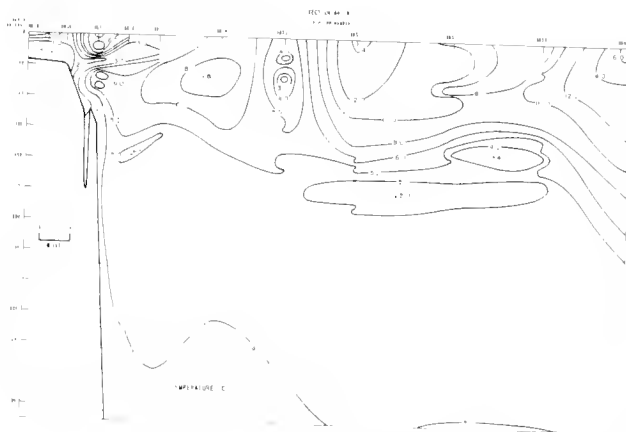
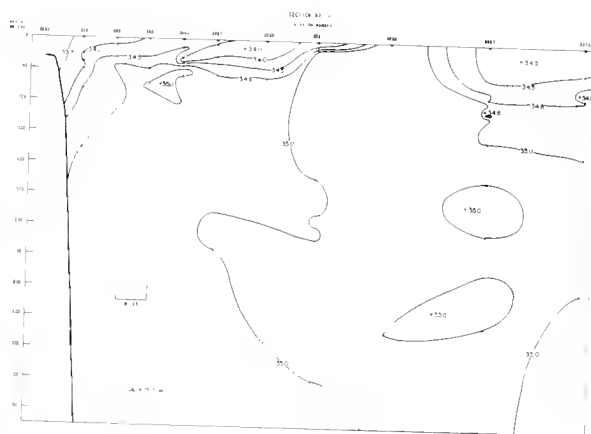
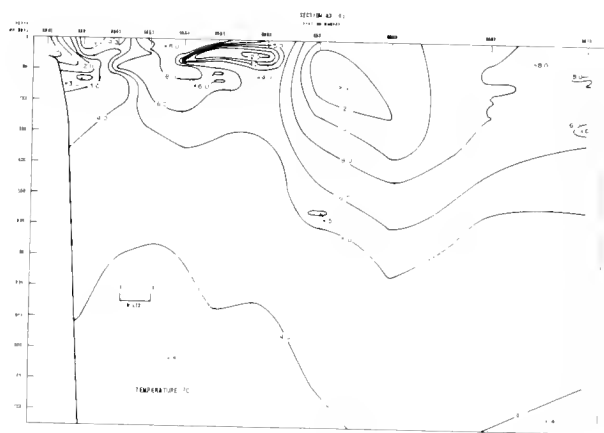
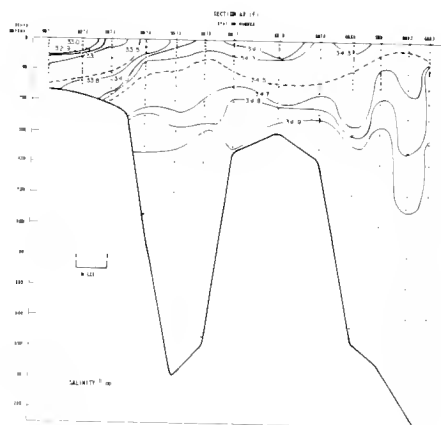
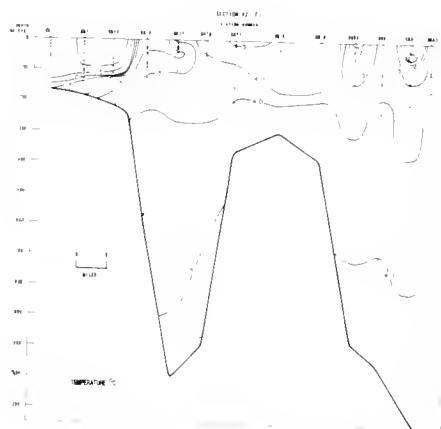


Figure 7. Temperature and salinity profiles, 2-8 April 1967.

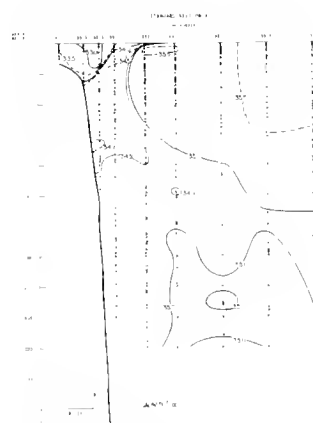
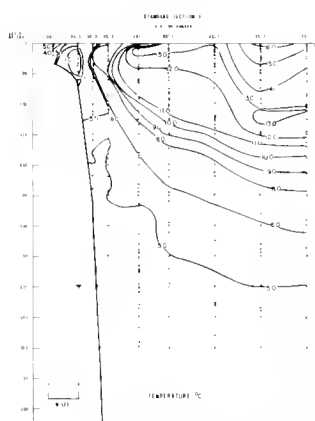
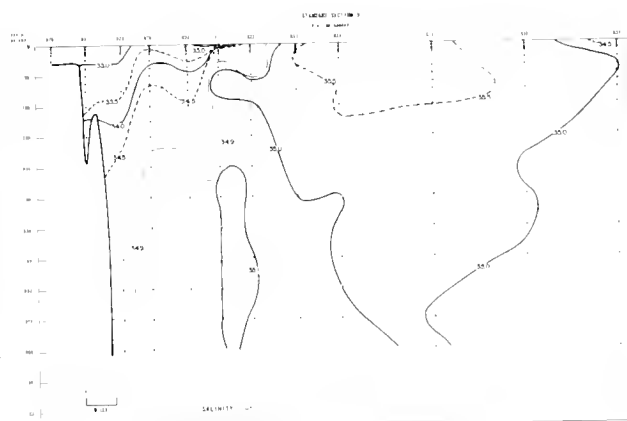
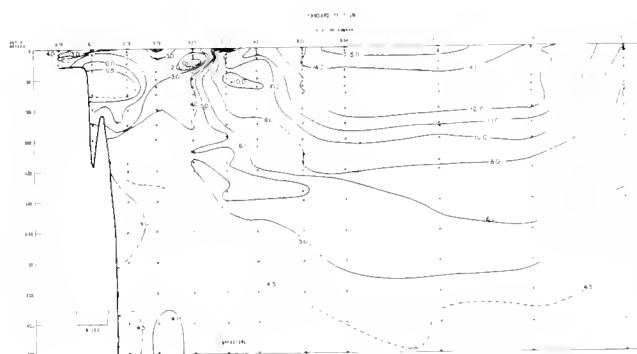
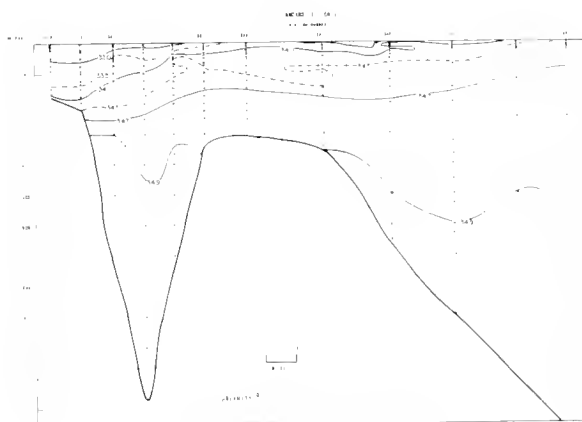
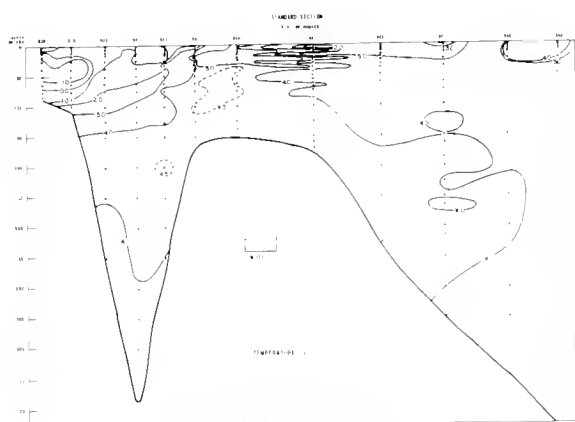


Figure 8. Temperature and salinity profiles, 12-15 May 1967.

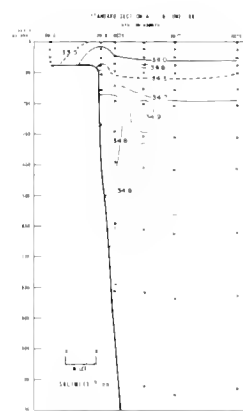
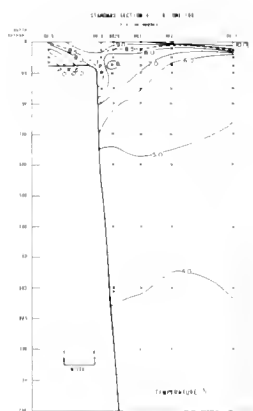
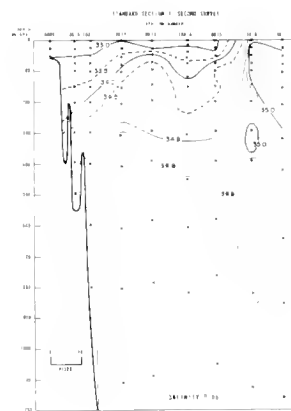
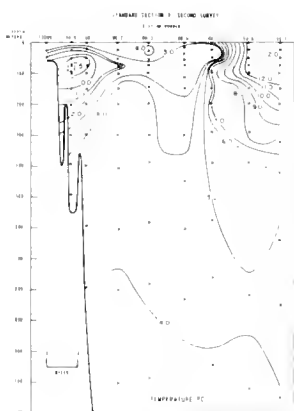
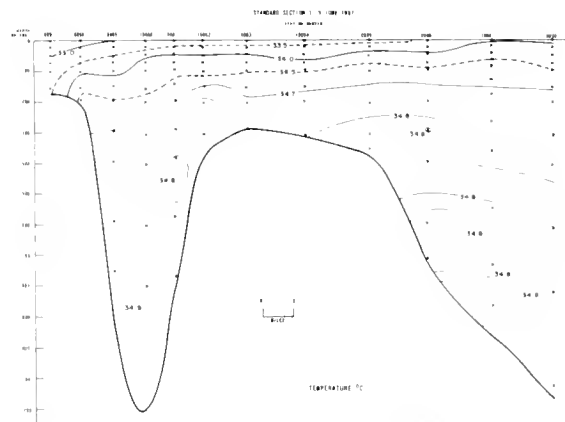
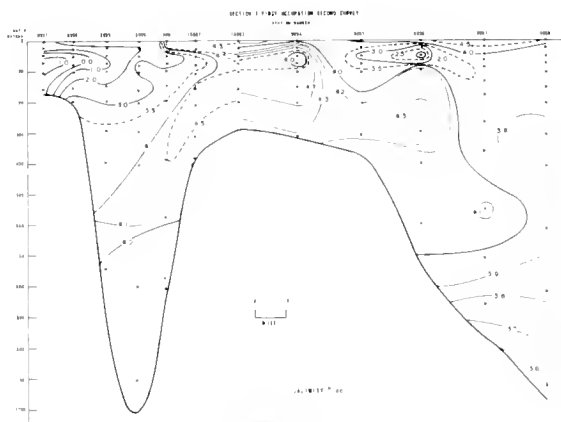


Figure 9. Temperature and salinity profiles, 4-8 June 1967.

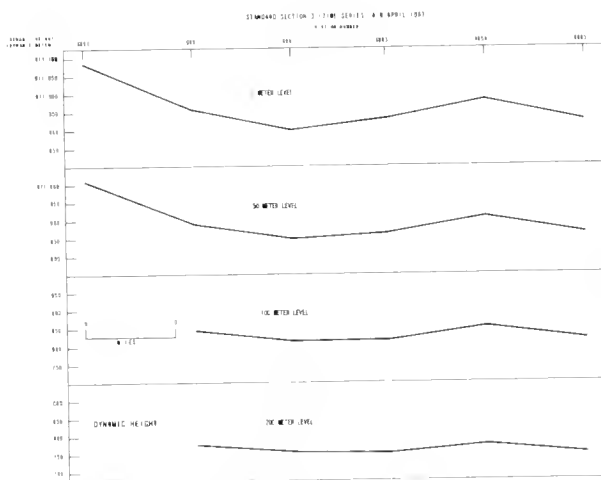
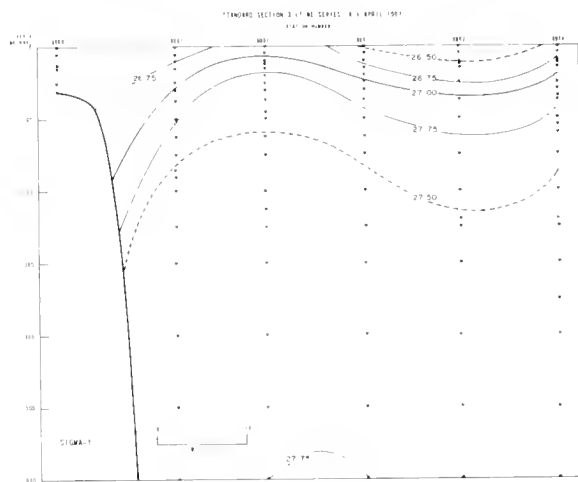
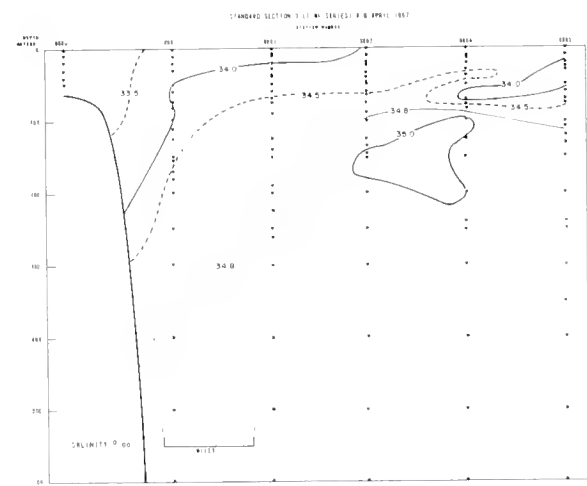
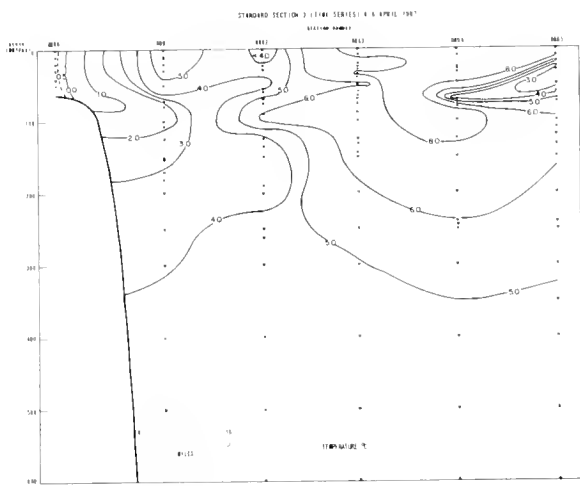


Figure 10. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 4-6 April 1967.

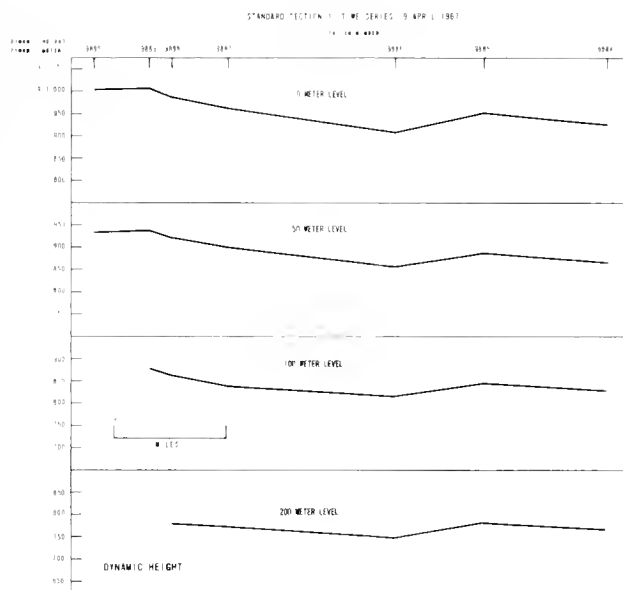
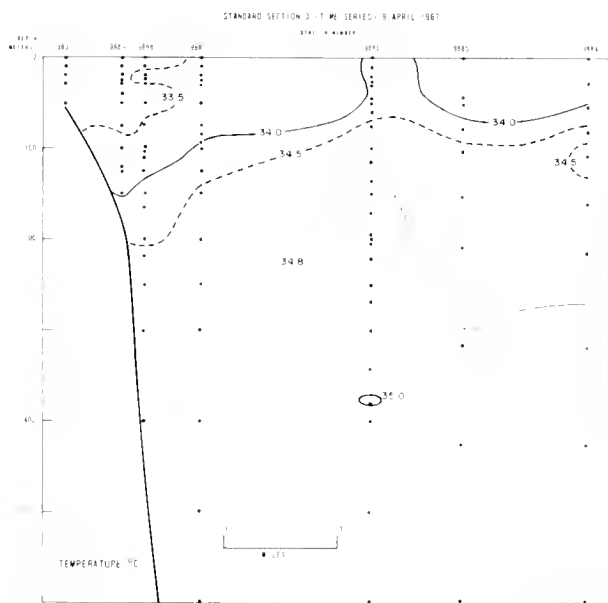
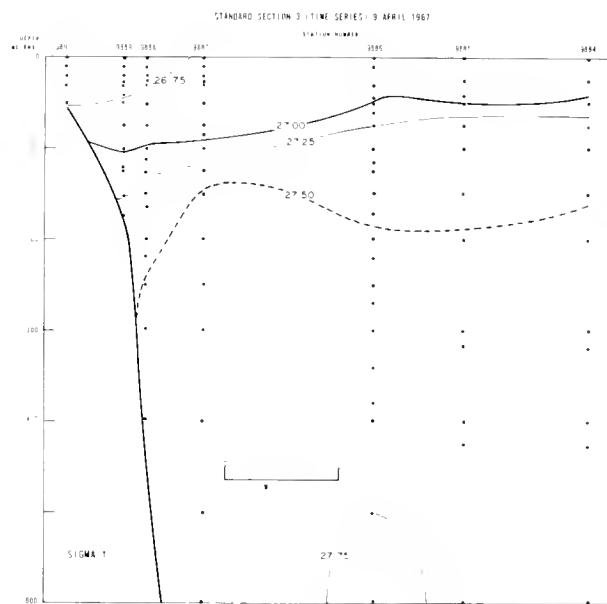
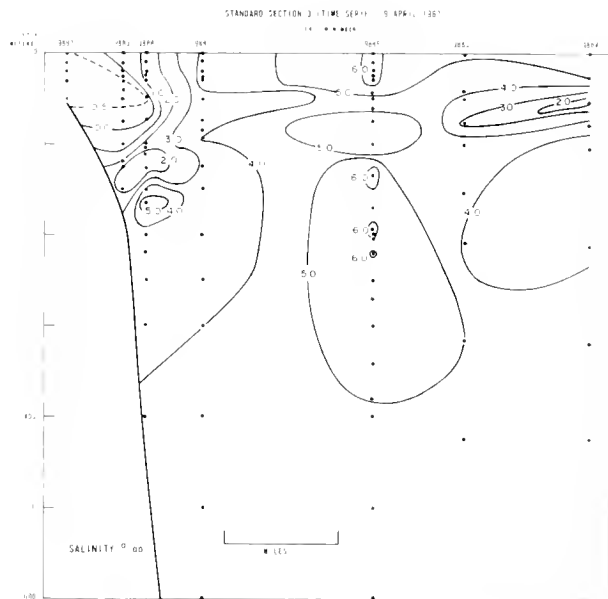


Figure 11. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 9 April 1967.

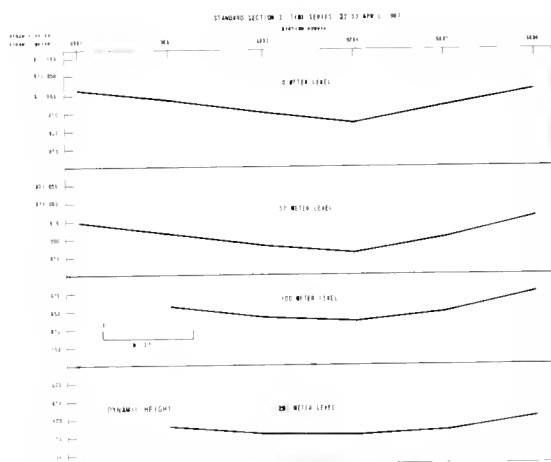
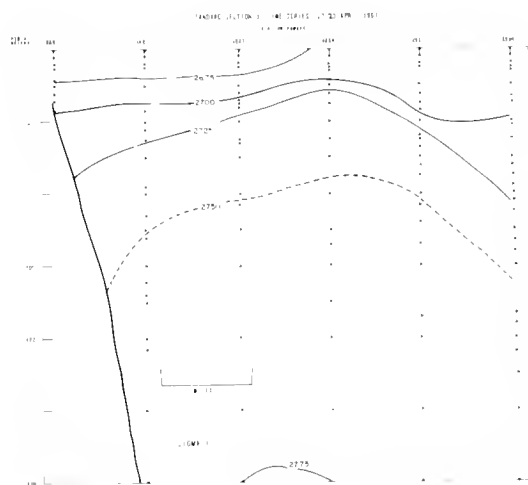
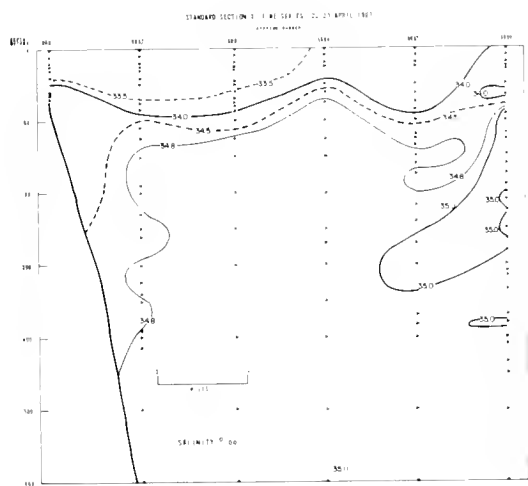


Figure 12. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 22-23 April 1967.

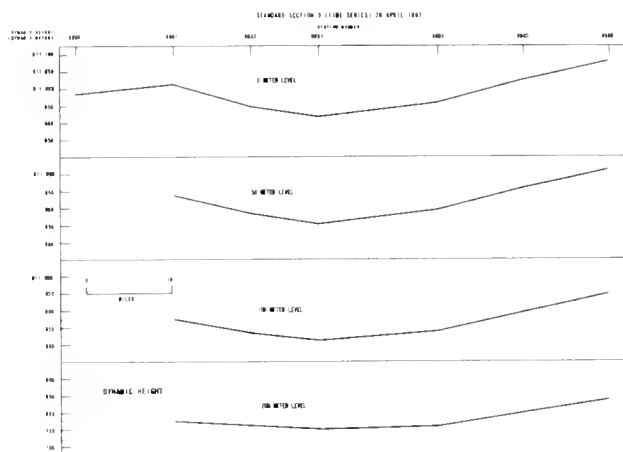
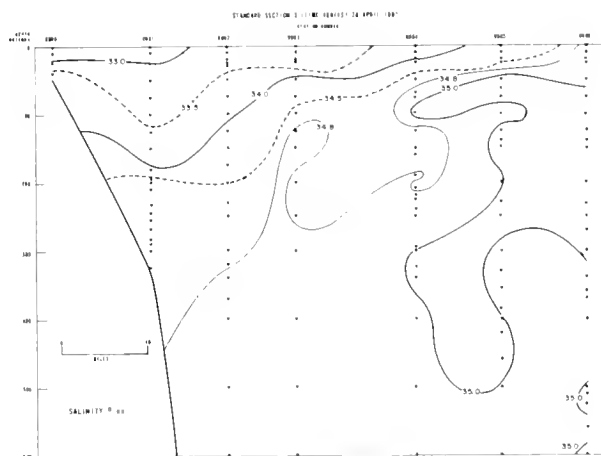
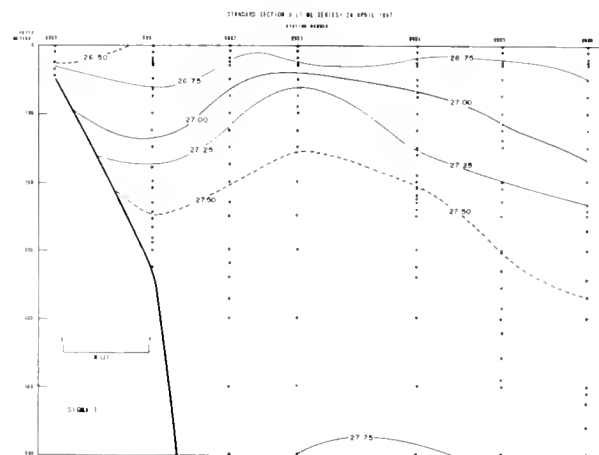
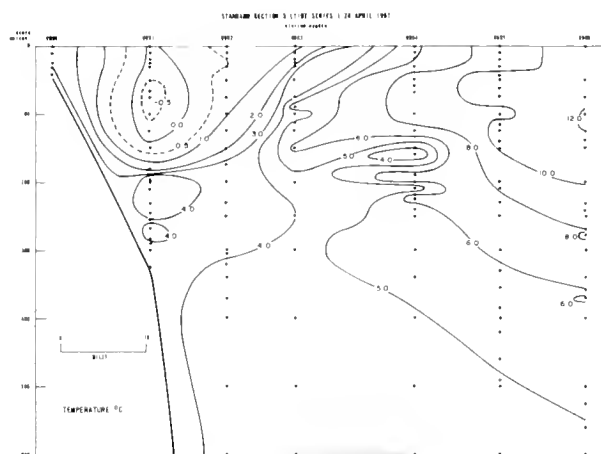


Figure 13. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 24 April 1967.

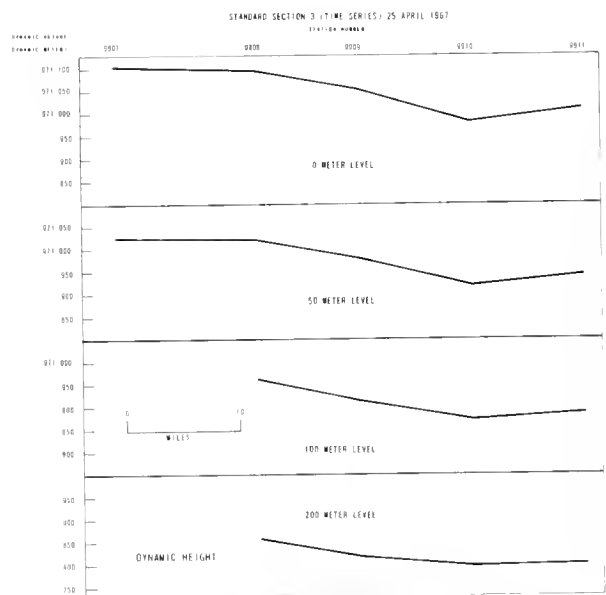
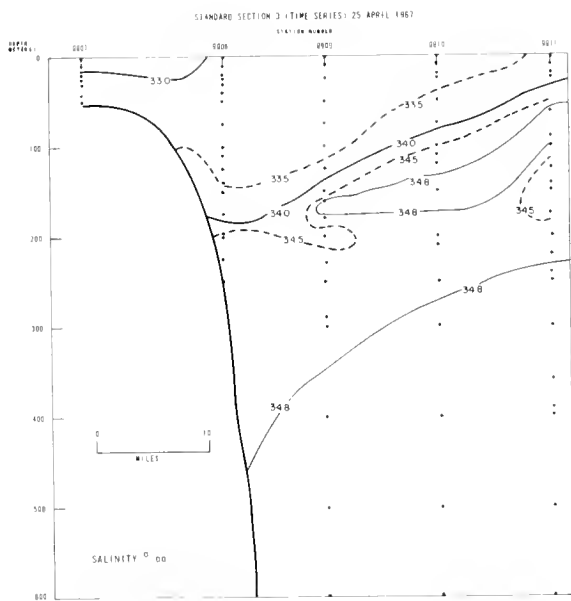
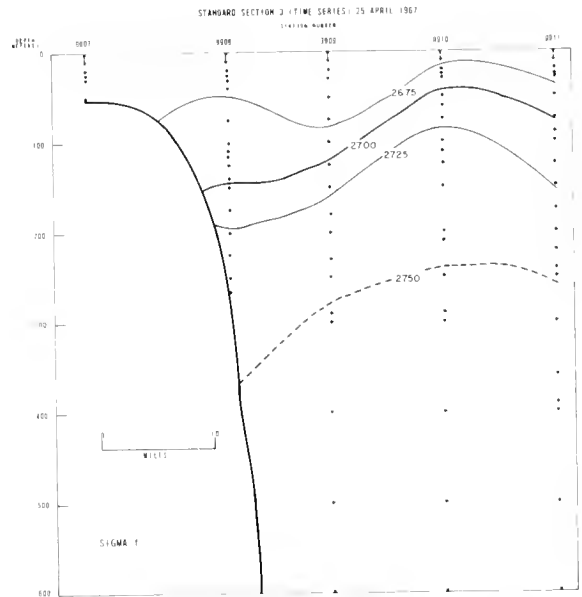
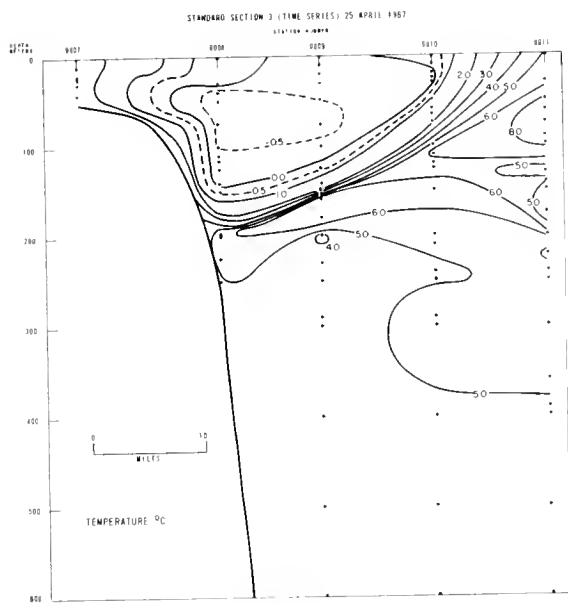


Figure 14. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 25 April 1967.

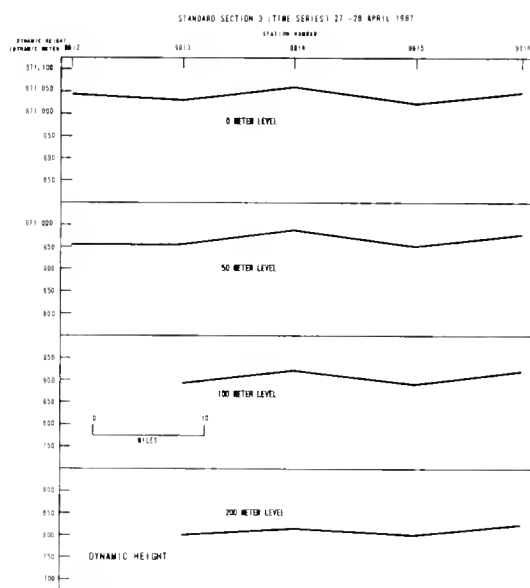
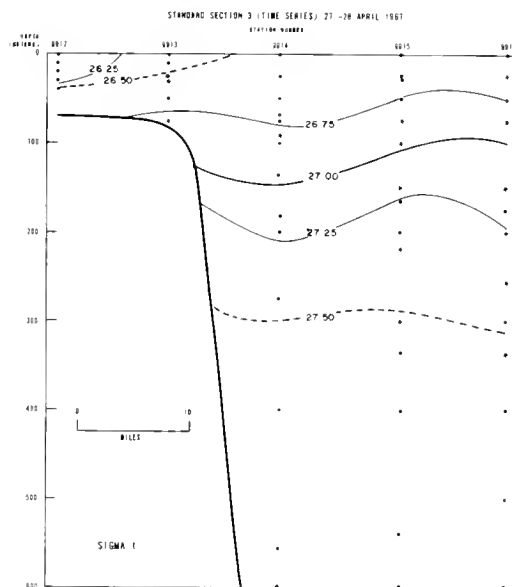
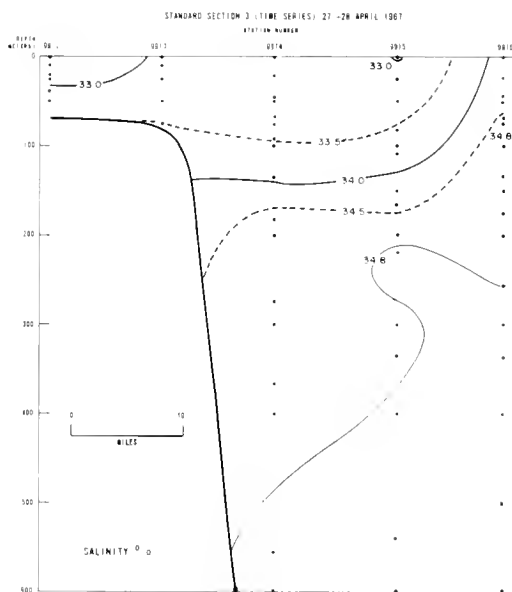
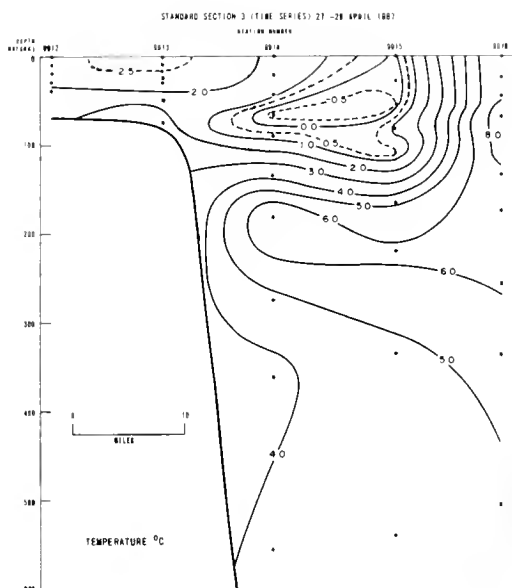


Figure 15. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 27-28 April 1967.

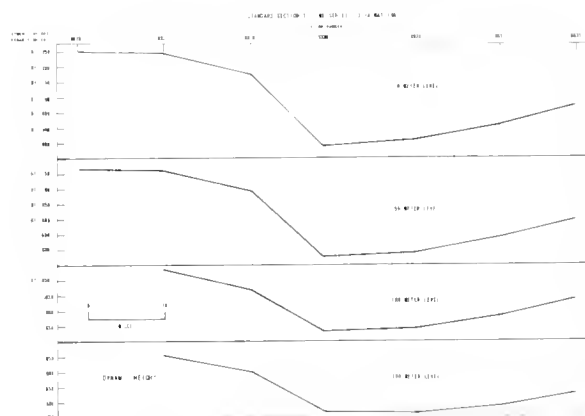
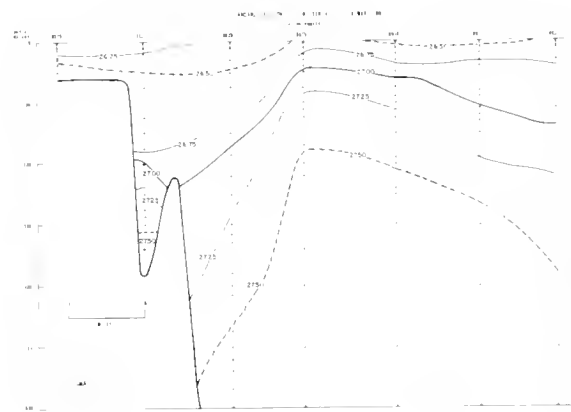
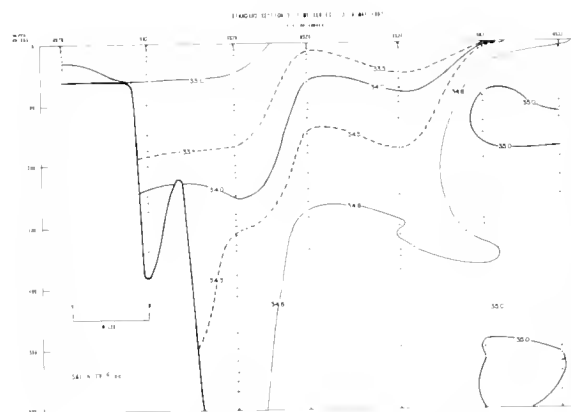
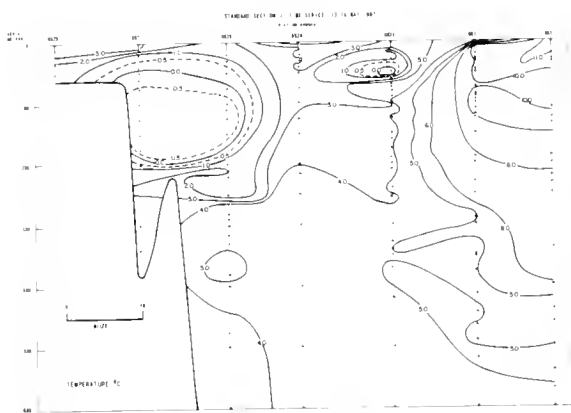


Figure 16. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 13-14 May 1967.

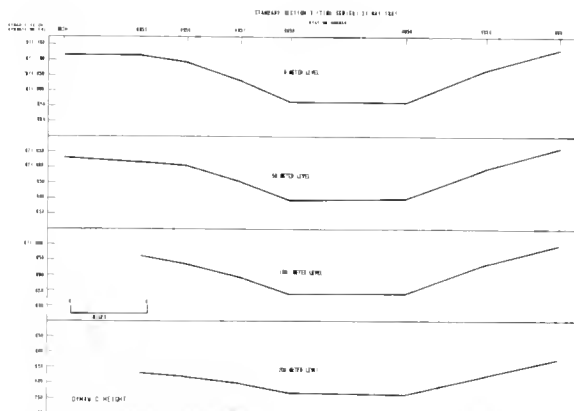
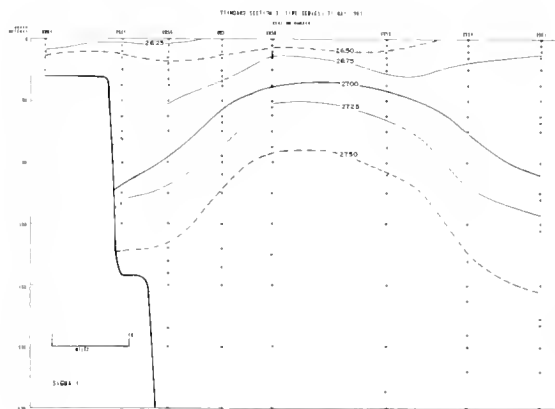
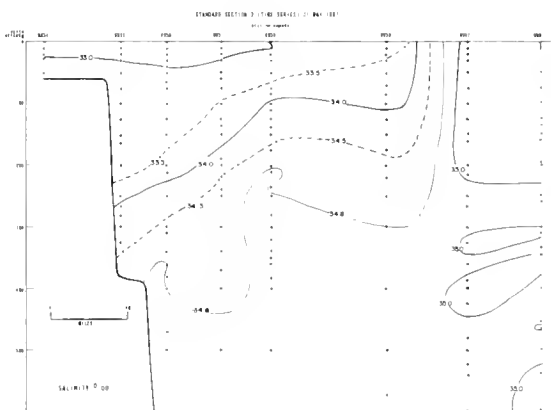
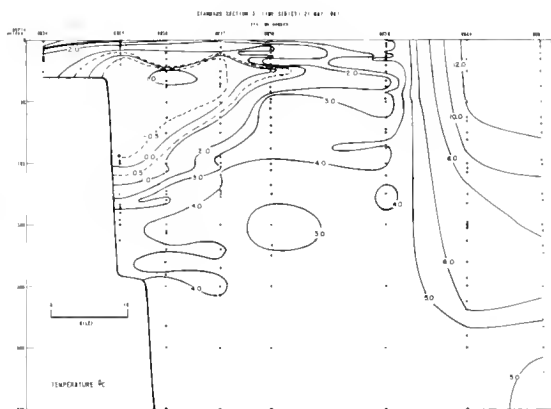


Figure 17. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 20-21 May 1967.

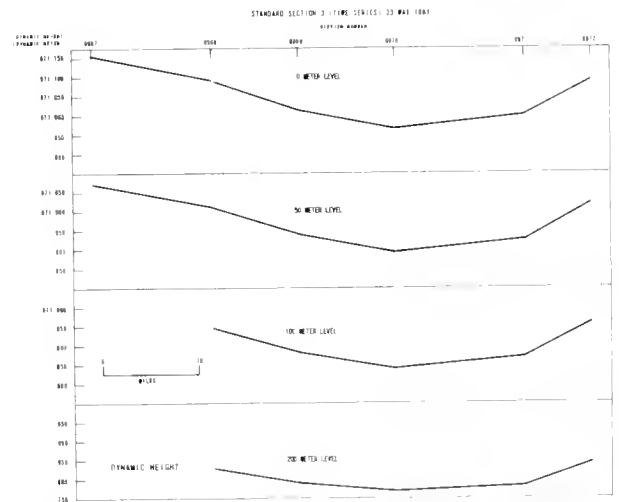
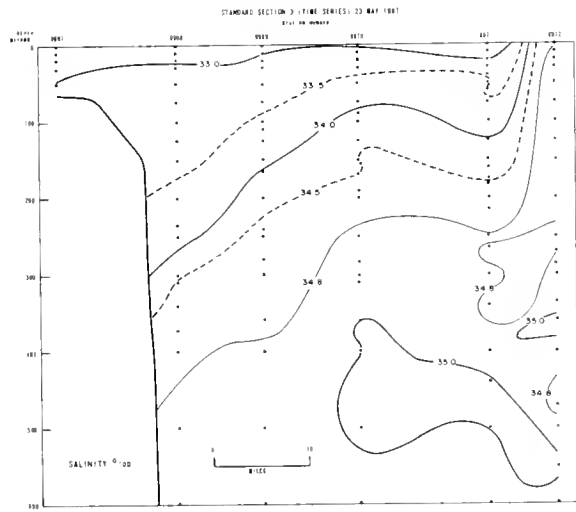
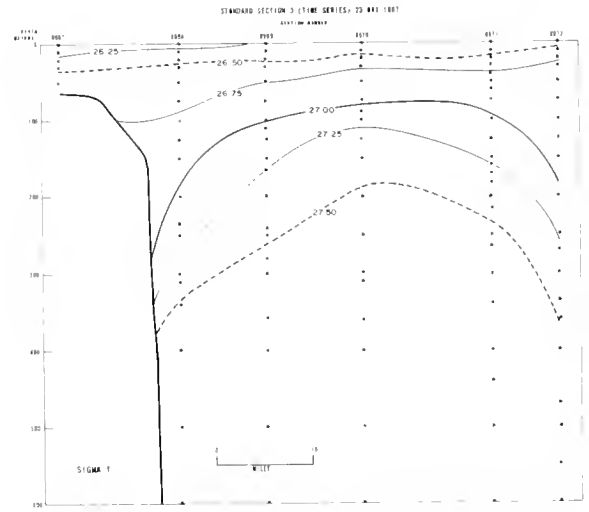
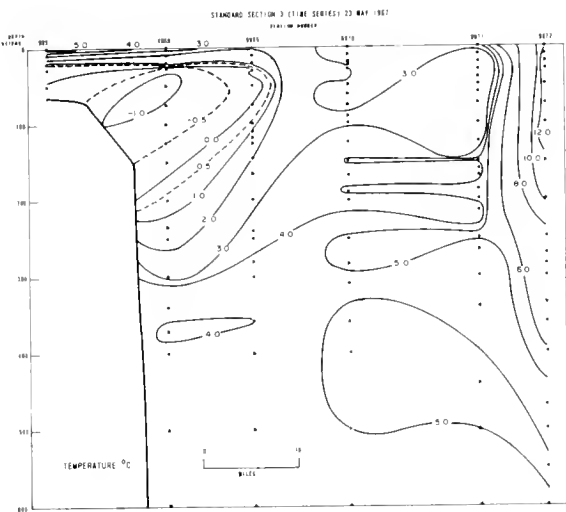


Figure 18. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 22-23 May 1967.

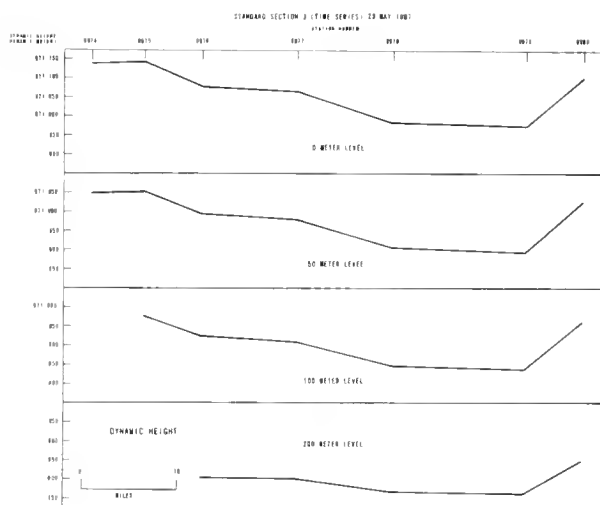
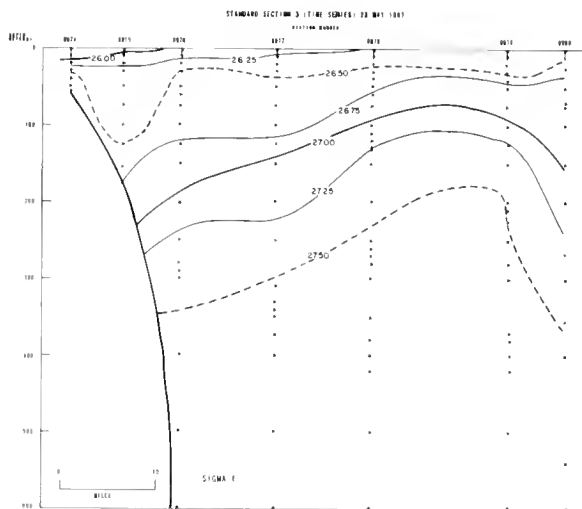
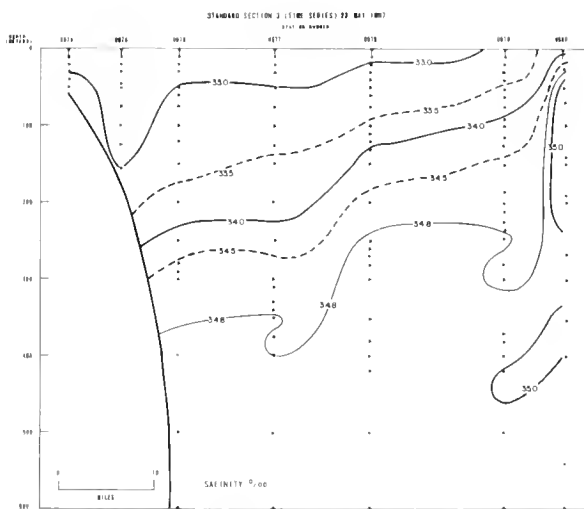
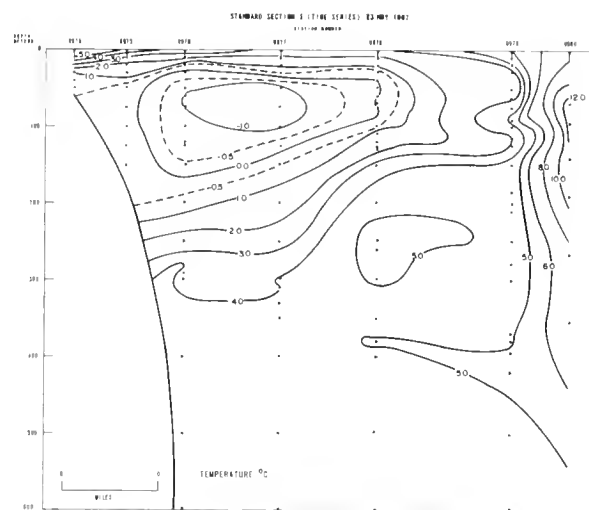


Figure 19. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 23 May 1967.

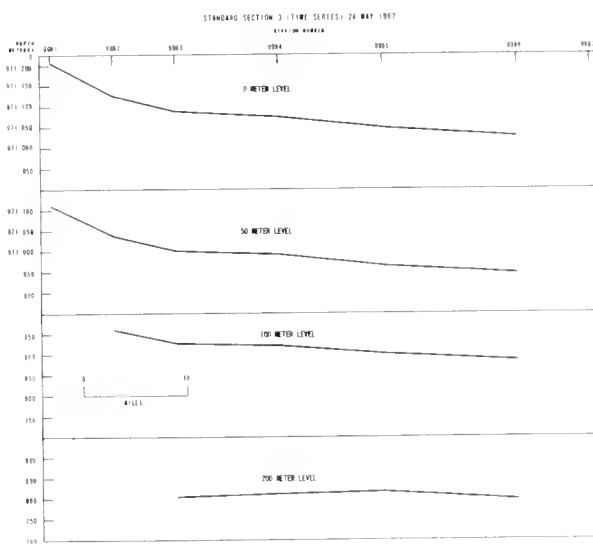
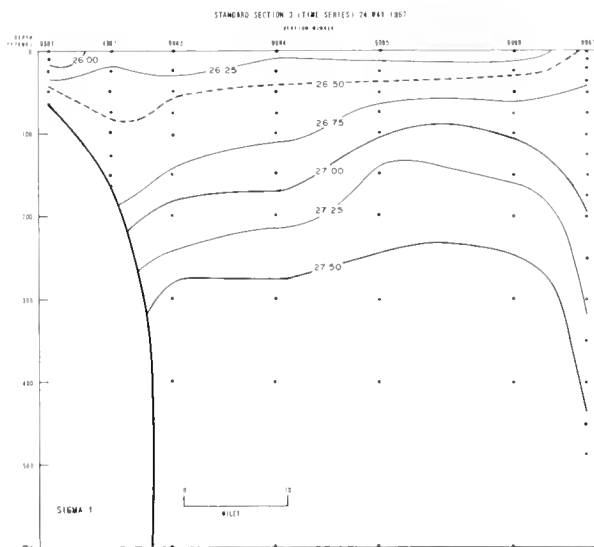
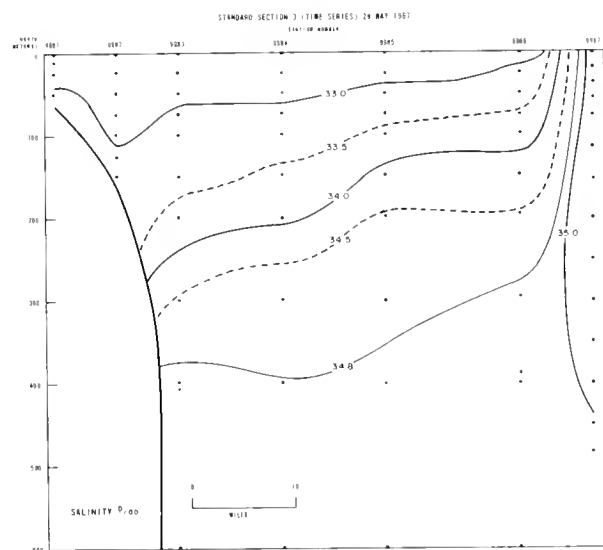
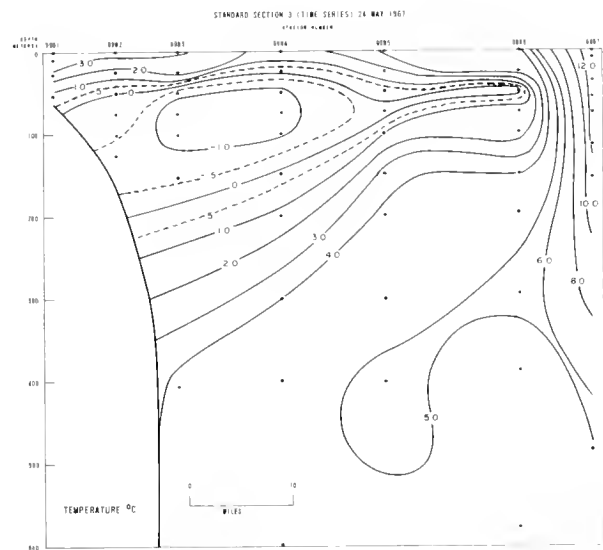


Figure 20. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 24 May 1967 (cast on station 9987 did not extend to reference level of 1,000 M).

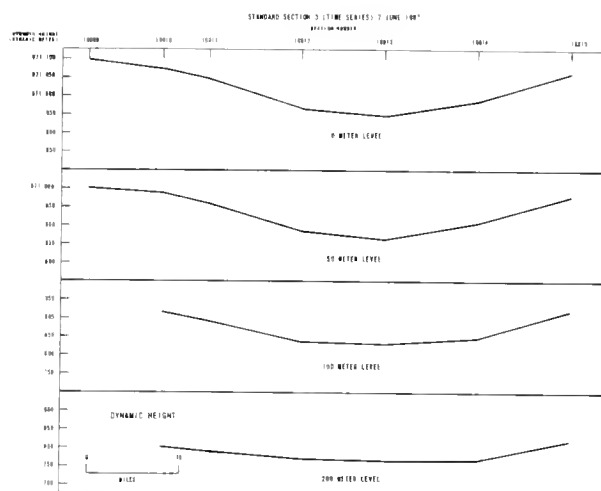
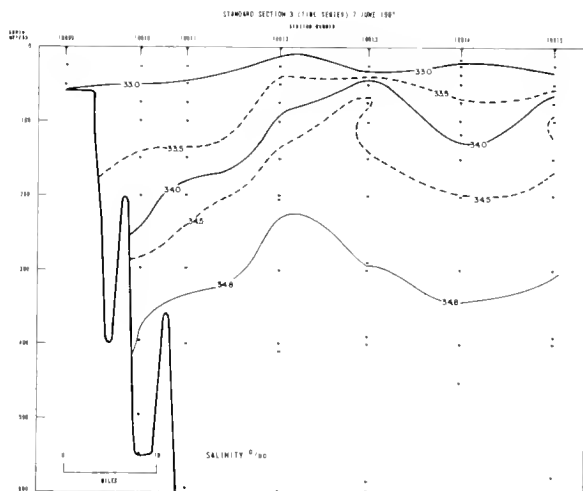
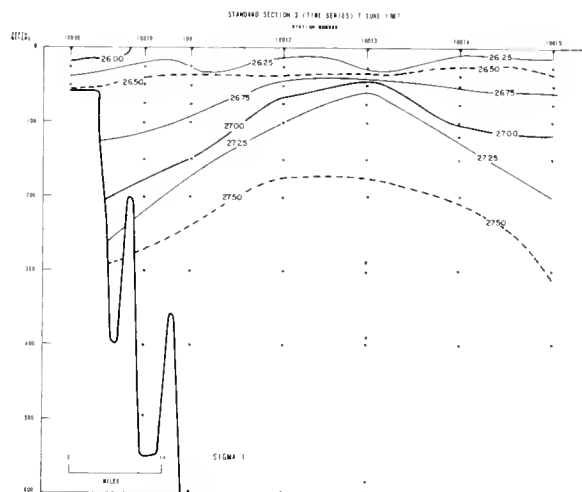
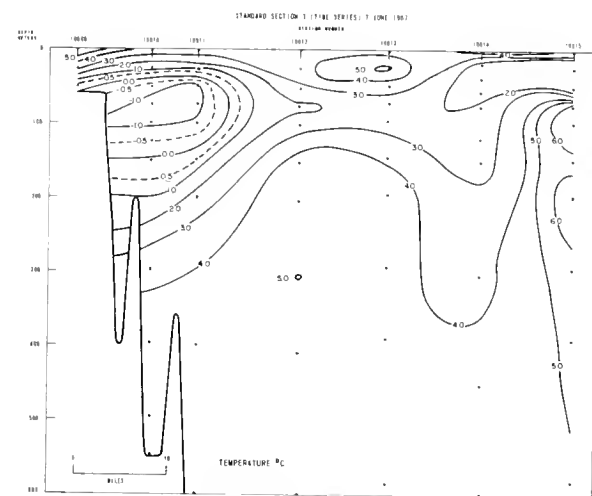


Figure 21. Temperature, salinity, sigma-t and dynamic height profiles, standard section A3, 6-7 June 1967.

STANDARD SECTION A3(U), XBT CASTS, 25 APRIL 1967

STATION NUMBER

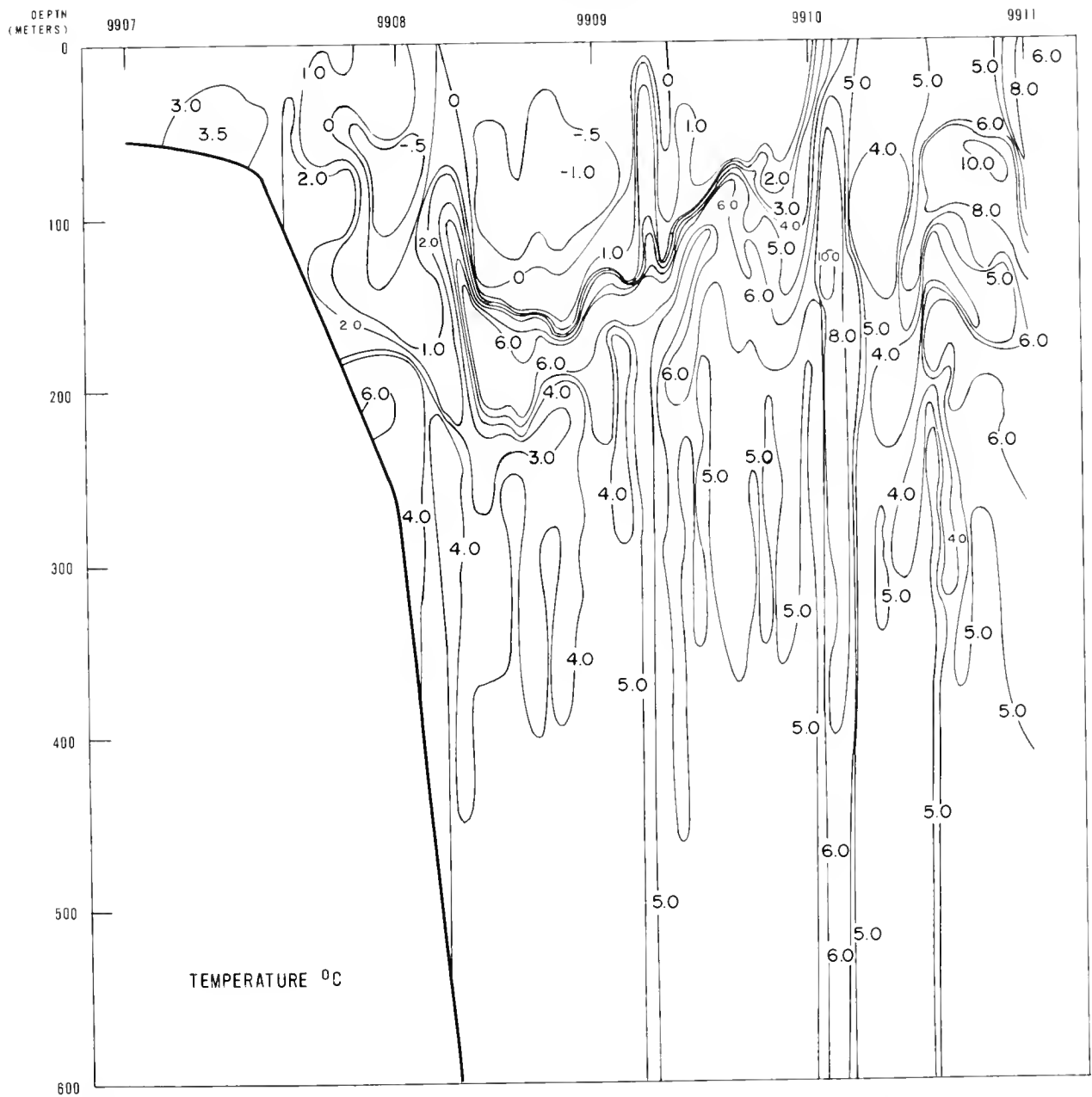


Figure 22. Detailed temperature structure of section A3 as determined by XBT casts, 25 April 1967.

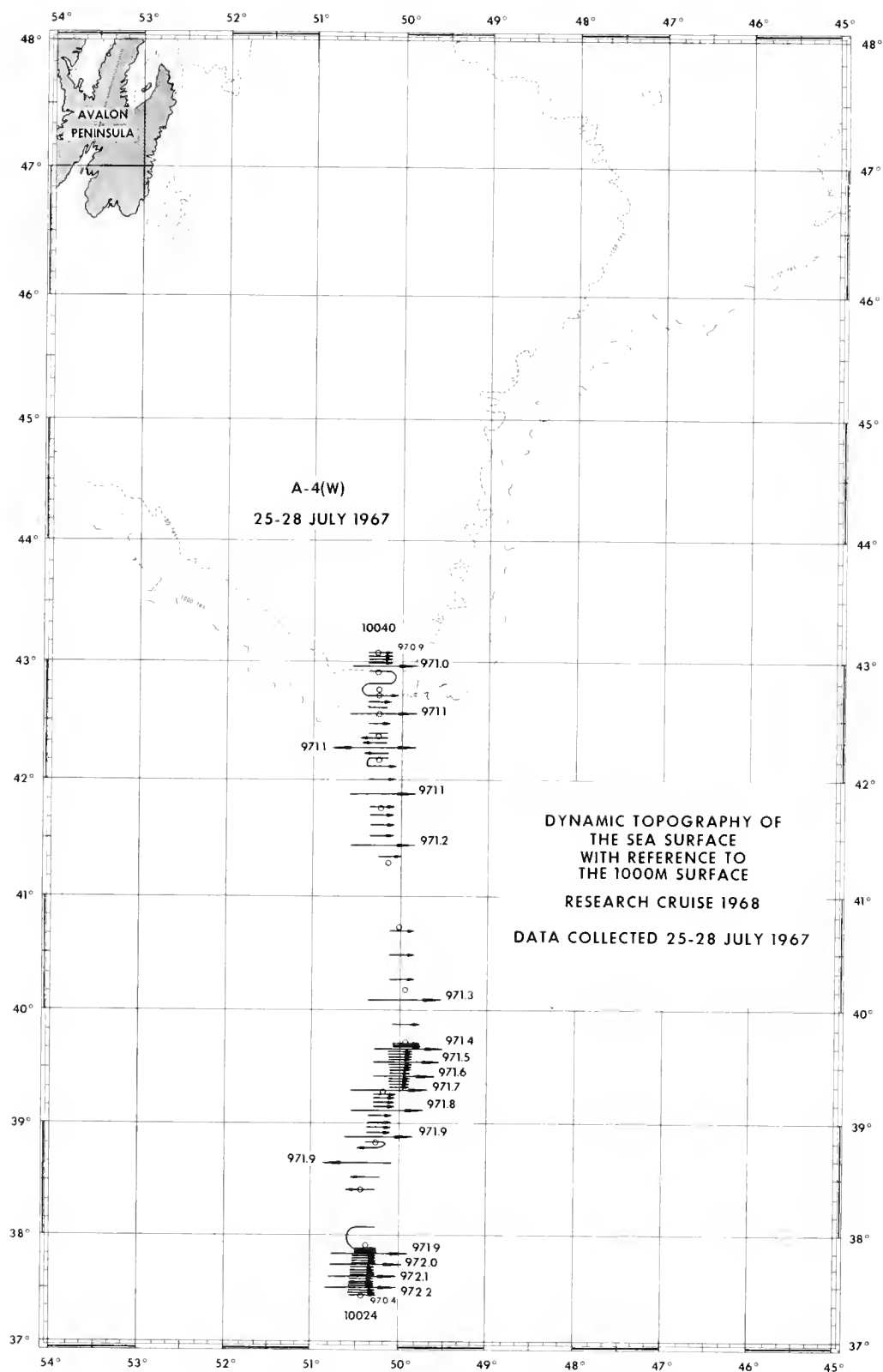


Figure 23. Dynamic topography section A4, 25-28 July 1967.

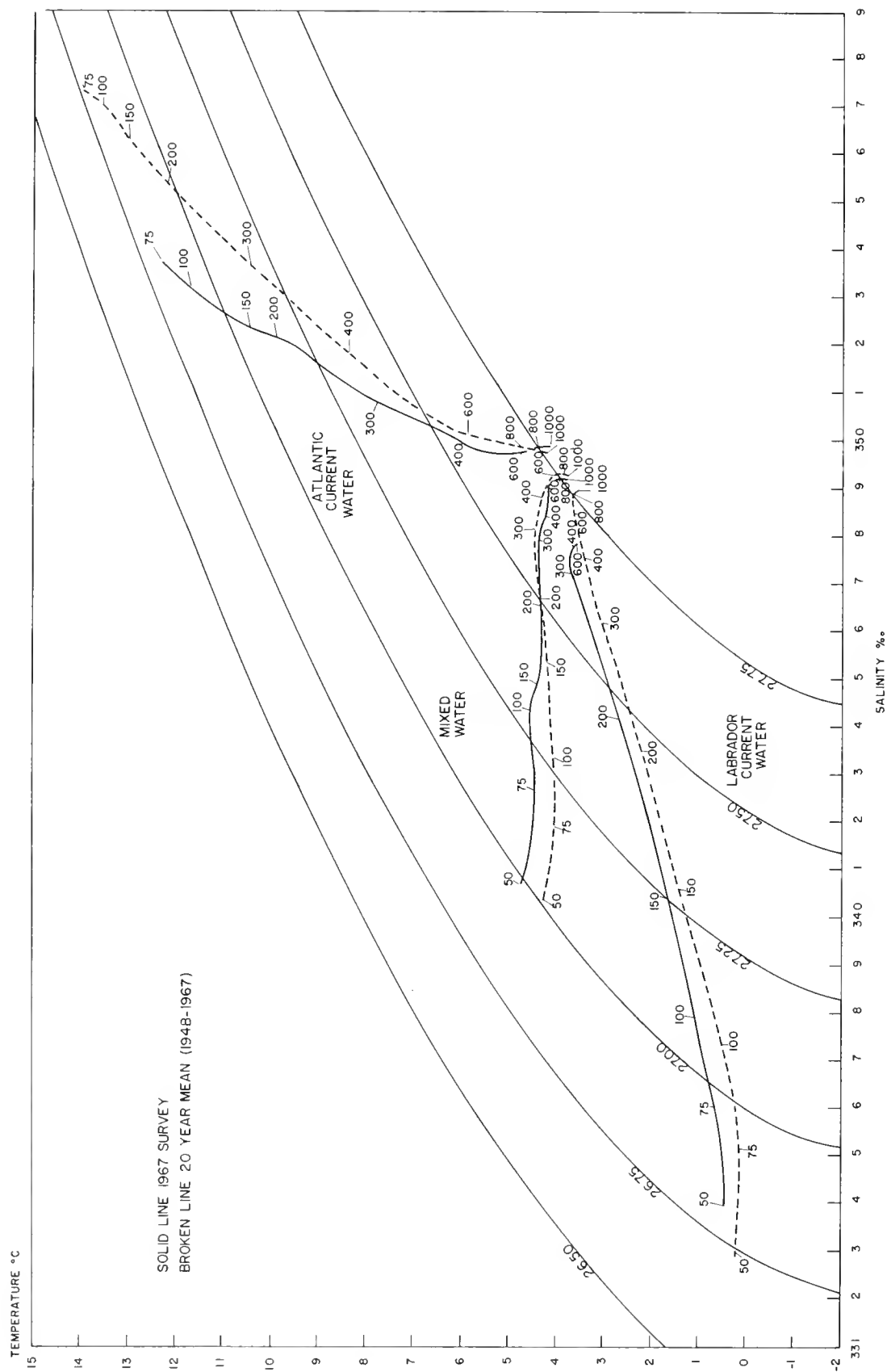


Figure 25. Mean and 1967 temperature-salinity relationships in the Grand Banks region.

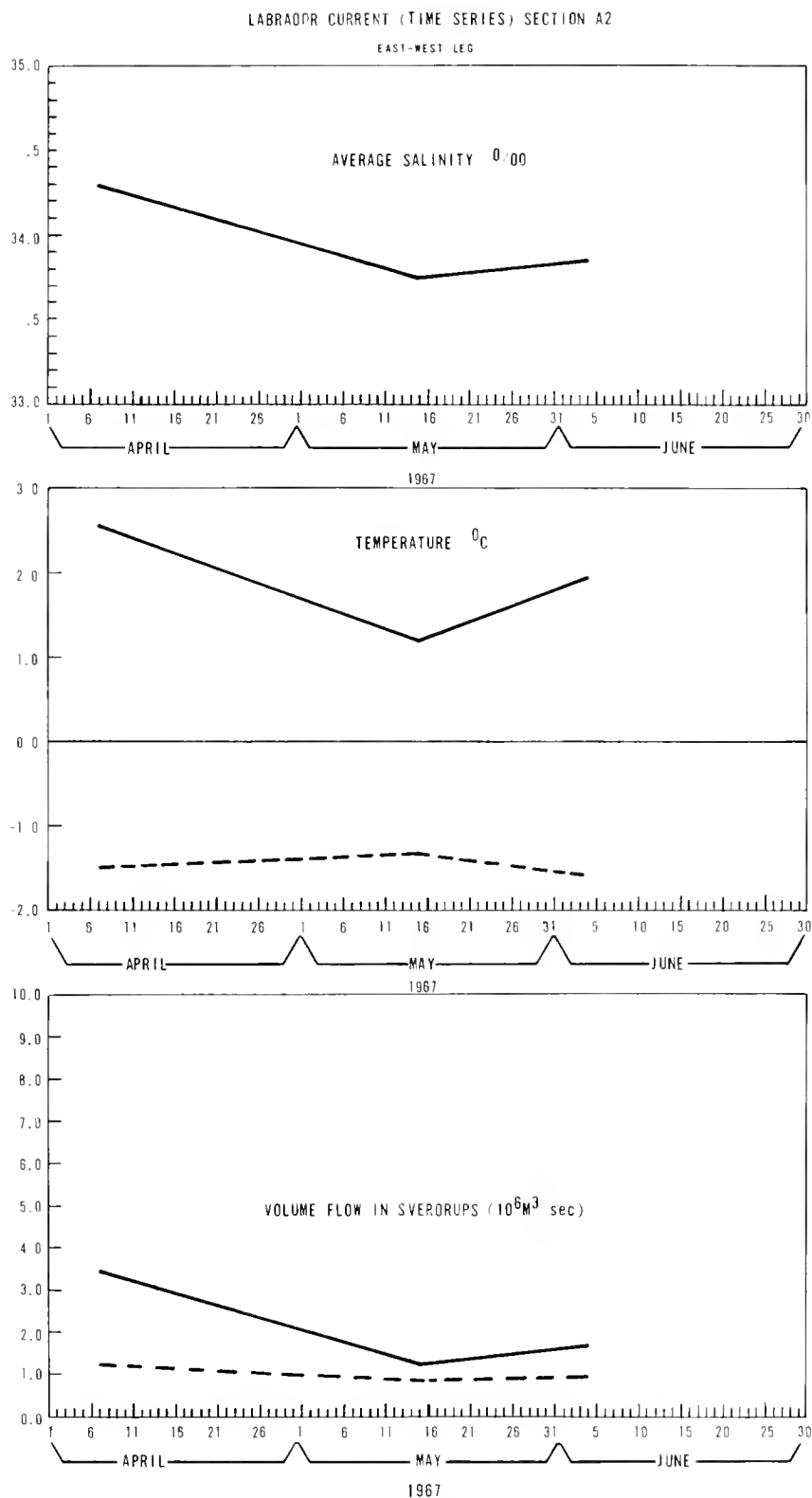


Figure 26. Labrador Current time series, section A2 1967, east-west leg.

LABRADOR CURRENT (TIME SERIES) SECTION A2

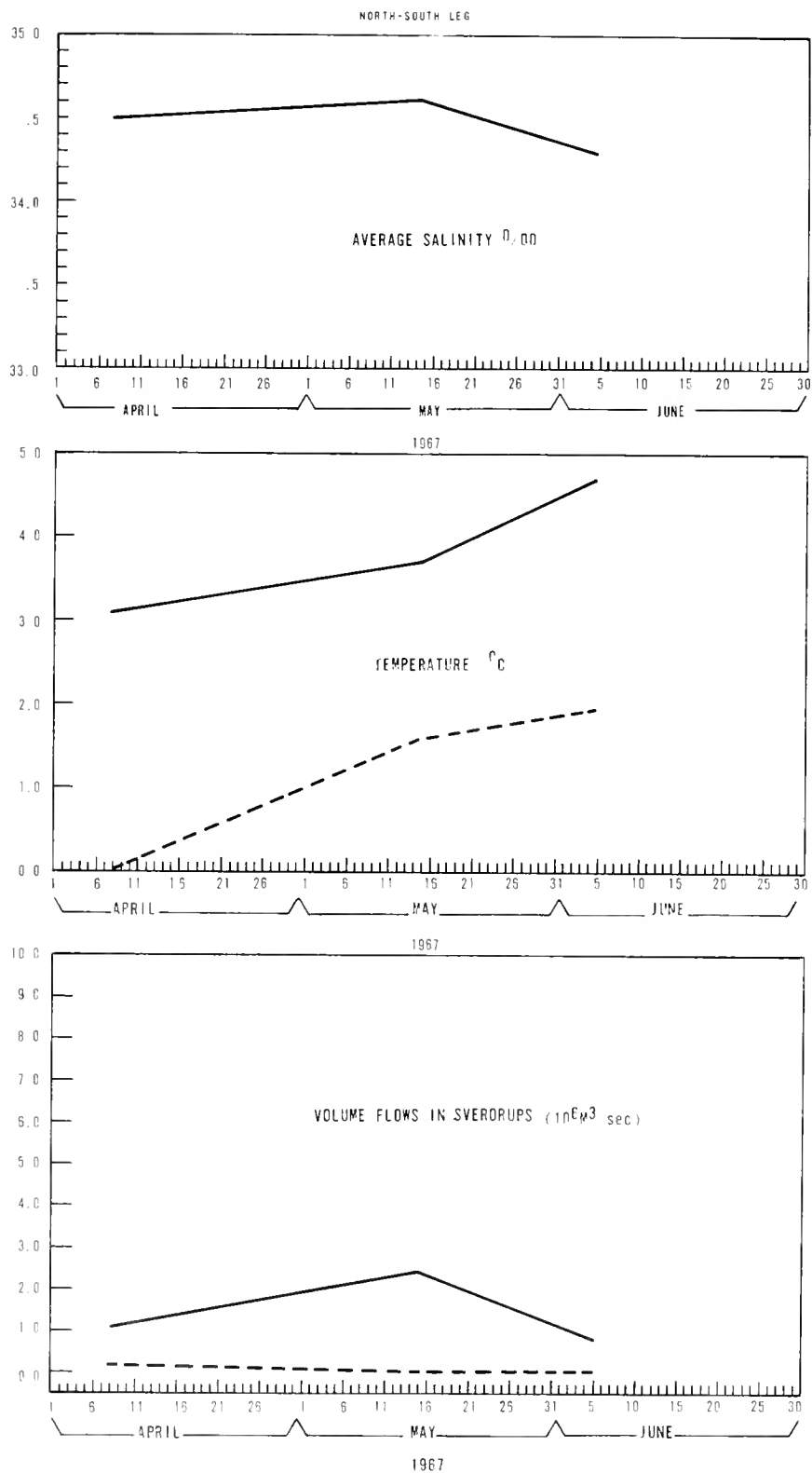


Figure 27. Labrador Current time series, section A2 1967, north-south leg.

LABRADOR CURRENT (TIME SERIES) SECTION A3

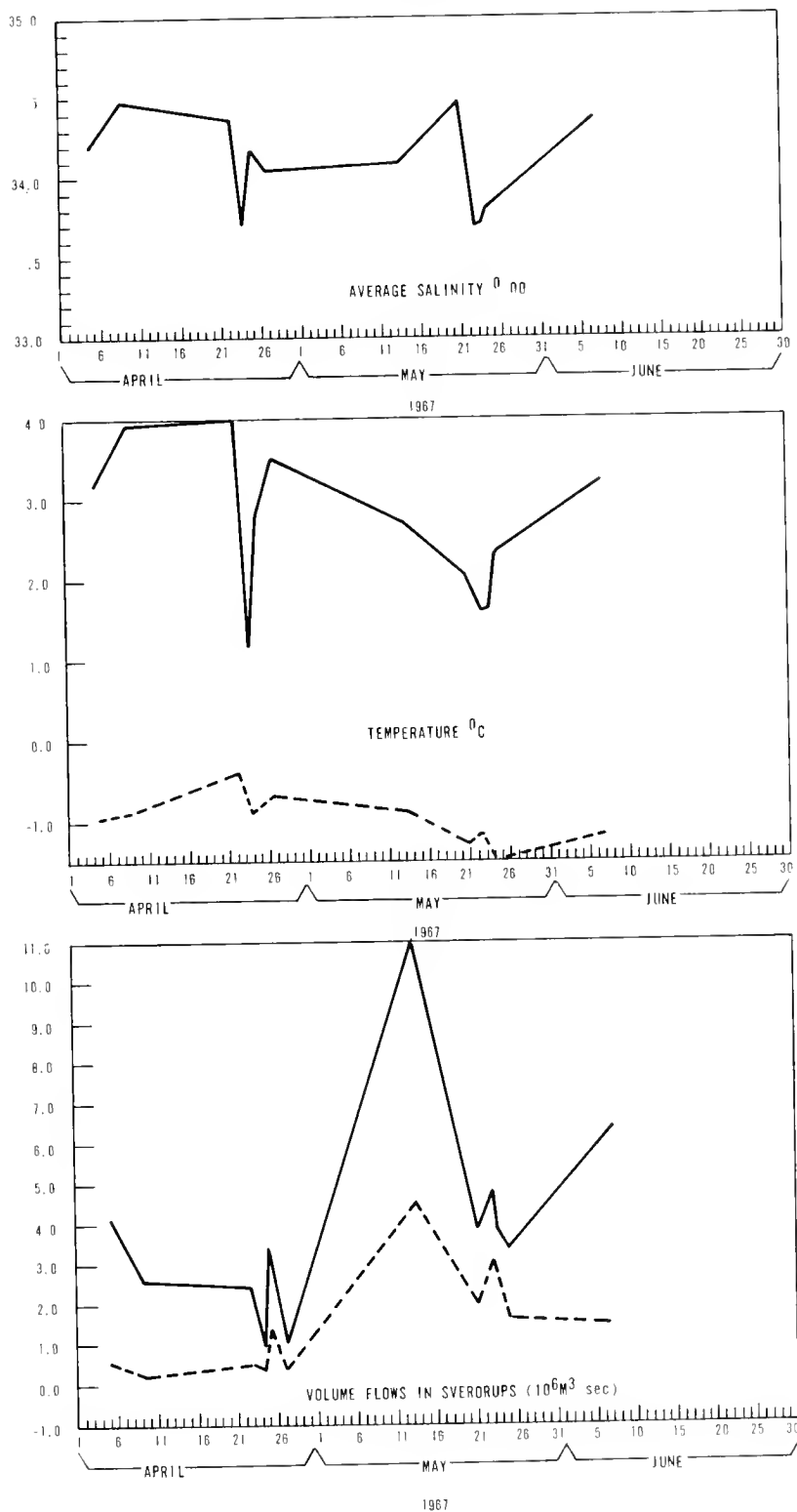


Figure 28. Labrador Current time series, section A3 1967.

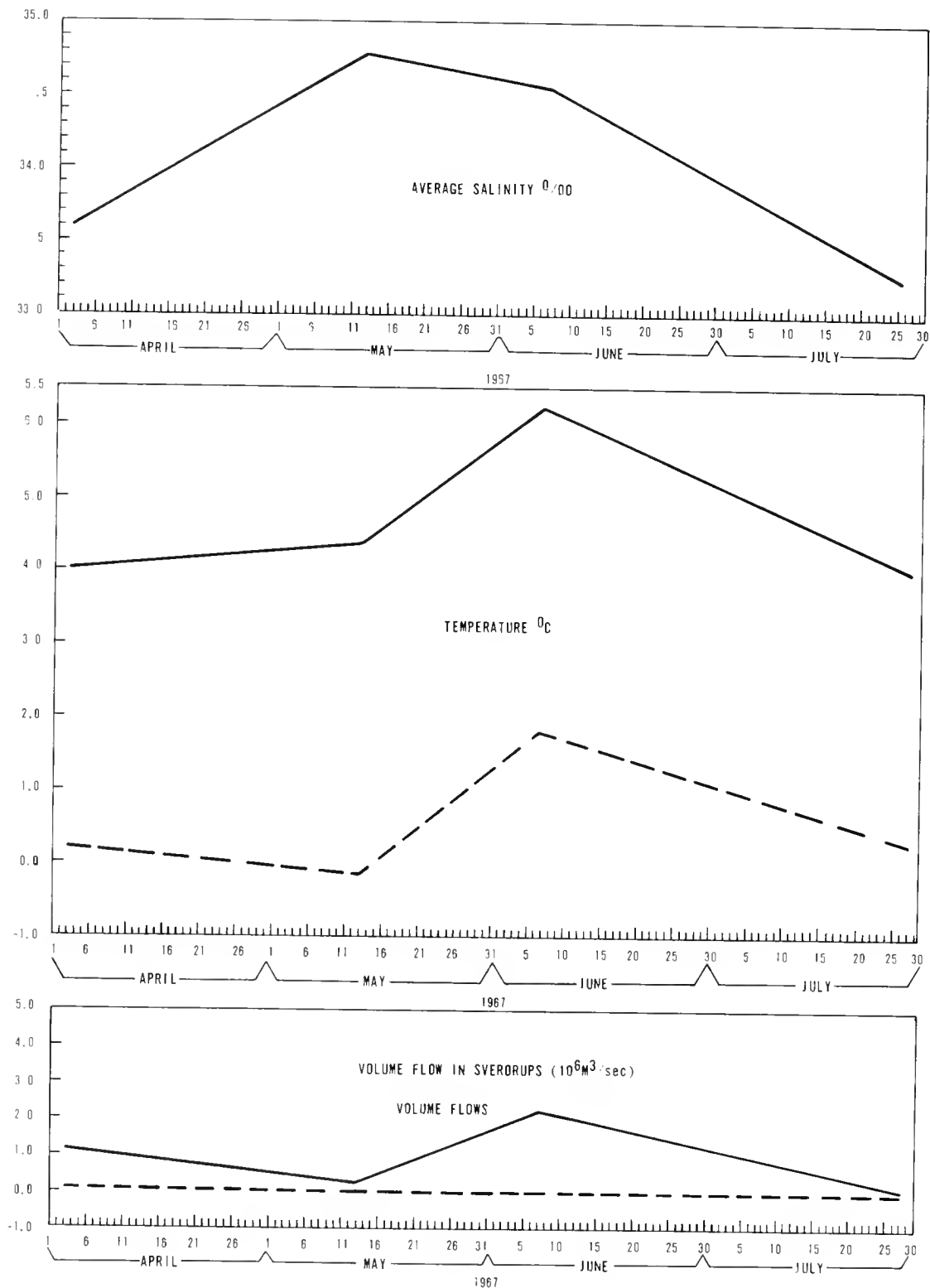


Figure 29. Labrador Current time series, section A4 1967.

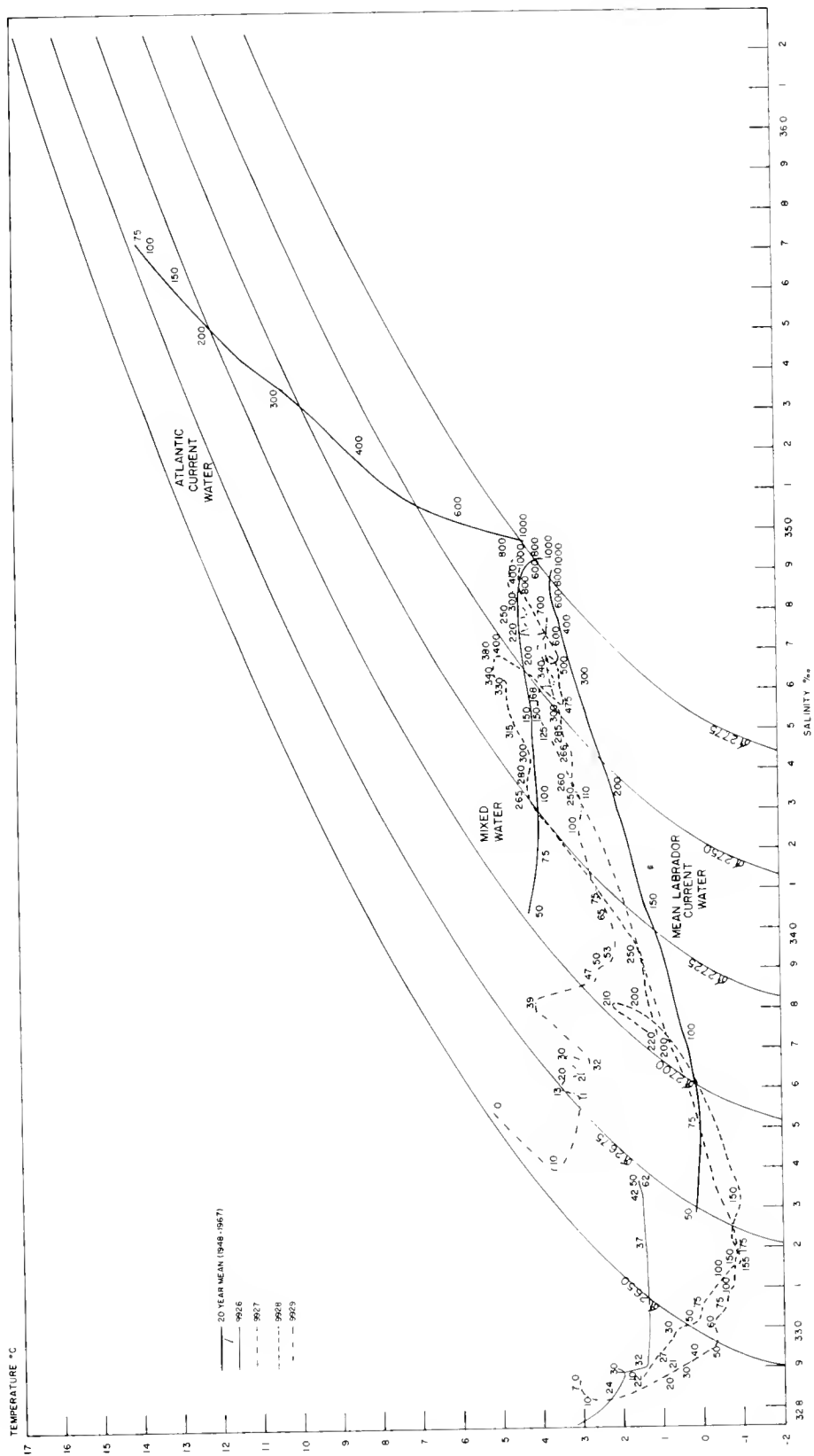


Figure 30. Temperature-salinity curves, stations 9926, 9927, 9928, and 9929.

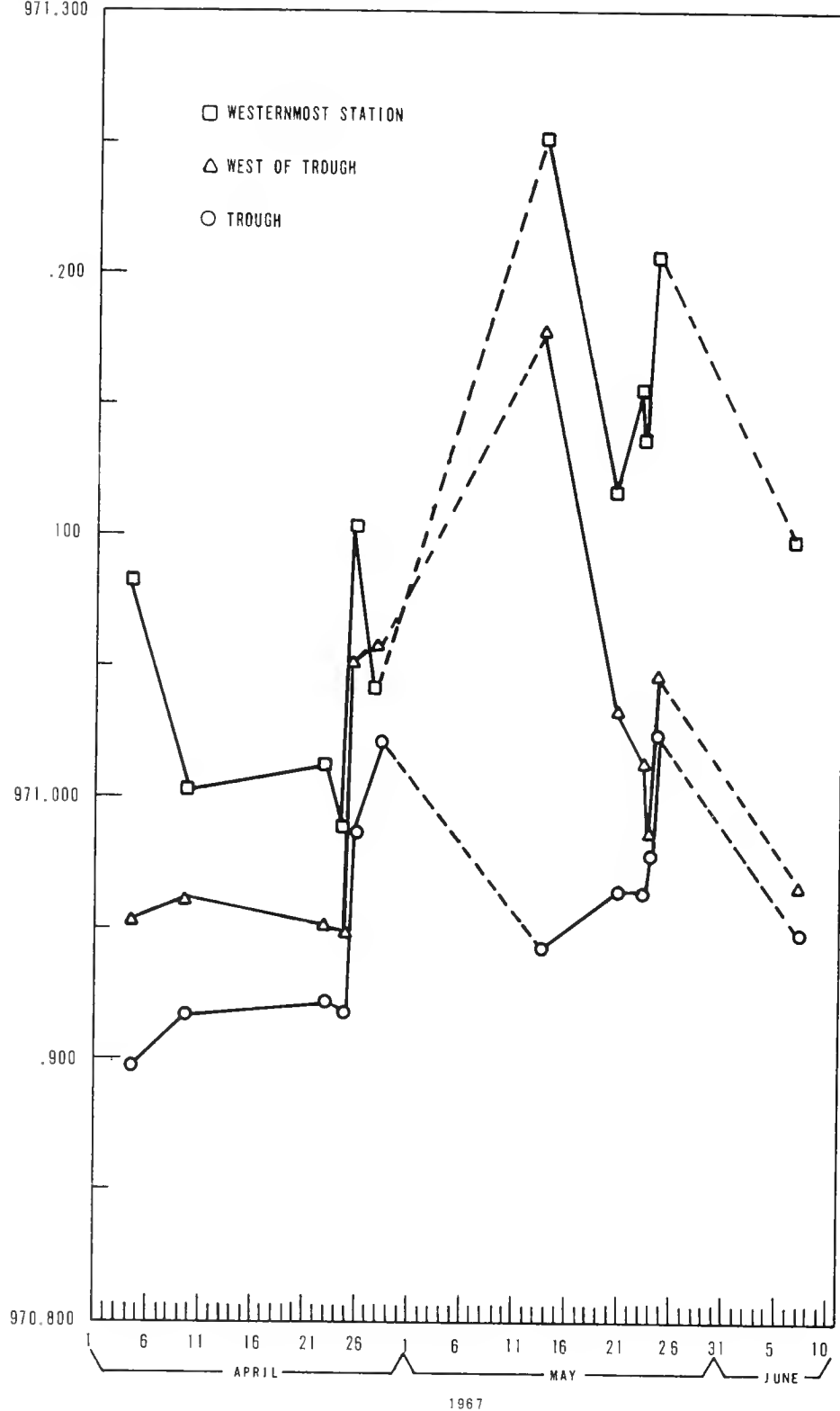


Figure 31. Surface dynamic height of stations in the trough, just west of the trough, and on the Grand Banks, 1967.

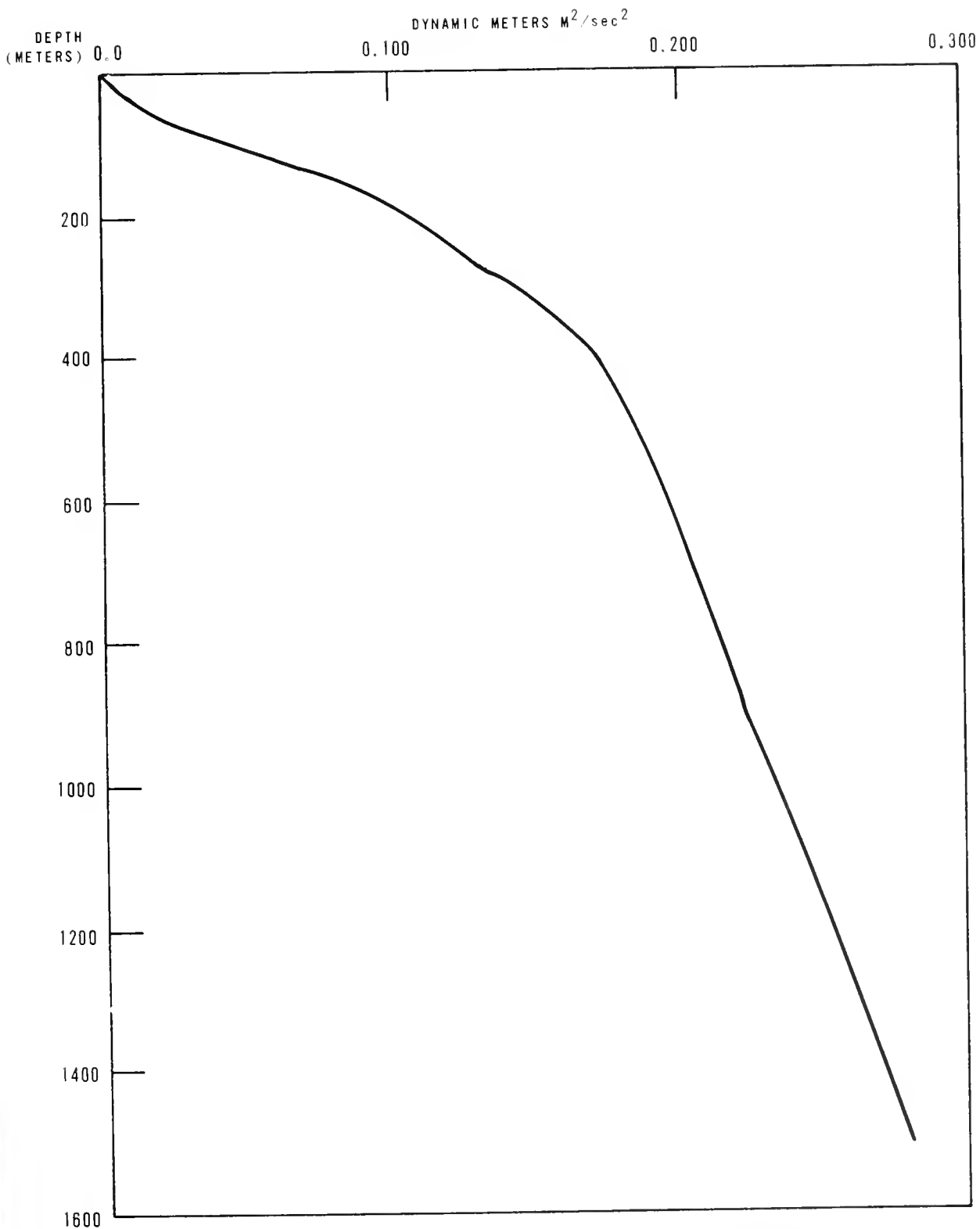


Figure 32. Difference in dynamic height between stations 9928 and 9929.

Table of Oceanographic Data

The following are the observed and interpolated data for the Coast Guard Oceanographic Unit oceanographic stations taken in conjunction with the International Ice Patrol 1967 in the Grand Banks of Newfoundland area. The data were obtained by the CGC EVERGREEN (WAGO-295) from 3 April 1967 to 28 July 1967. Presentation is from National Oceanographic Data Center Cruise Listing No. 31-8008, 31-8016, and 31-8017.

NOTE.—A complete description of codes can be found in NODC publication M-2, "Processing Physical and Chemical Data From Oceanographic Stations".

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	OBS INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.						10°	1°	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318008		EV	4006 N	05029 W		150	00	04	03	027	1967	11P	9849		4206	15	35	3	3		X1	0 3		0001
		WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																			
DT	SD	36	S05	058		144	139	7	34															
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta$ D DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	TEMP °C							
		STD	0000	1630	3617	2660	0014491	0000	15129															
027		OBS	0000	1630	36173	2660			15129															
		STD	0010	1629	3617	2660	0014501	0014	15130															
		OBS	0010	1629	36173	2660			15130															
		STD	0020	1627	3617	2660	0014490	0029	15131															
004		OBS	0020	1627	36173	2660			15131															
		STD	0030	1620	3616	2661	0014477	0043	15130															
		OBS	0030	1620	36158	2661			15130															
		STD	0050	1598	3611	2662	0014443	0072	15126															
		OBS	0050	1598	36105	2662			15126															
		STD	0075	1530	3594	2665	0014252	0108	15107															
		OBS	0075	1530	35940	2665			15107															
		STD	0100	1422	3568	2668	0013967	0144	15074															
		OBS	0100	1422	35680	2668			15074															
		STD	0125	1390	3561	2670	0013901	0178	15067															
		OBS	0125	1390	35610	2670			15067															
		OBS	0140	1361	35560	2672			15059															
		STD	0150	1378	3564	2674	0013526	0213	15067															
		OBS	0150	1378	35638	2674			15067															
		OBS	0160	1413	35740	2675			15081															
		OBS	0167	1363	35640	2678			15065															
		OBS	0171	1403	35760	2679			15080															
		OBS	0190	1351	35640	2680			15065															
		STD	0200	1373	3573	2682	0012933	0279	15075															
		OBS	0200	1373	35725	2682			15075															
		STD	0250	1373	3573	2682	0013075	0344	15083															
		OBS	0250	1373	35725	2682			15083															
		STD	0300	1240	3546	2689	0012532	0408	15043															
		OBS	0300	1240	35460	2689			15043															
		OBS	0361	1012	35150	2707			14969															
		OBS	0375	1048	35318	2714			14987															
		STD	0400	0998	3526	2717	0009899	0520	14972															
		OBS	0400	0998	35256	2717			14972															
		STD	0500	0755	3505	2740	0007730	0608	14895															
		OBS	0500	0755	35052	2740			14895															
		STD	0600	0613	3502	2757	0006146	0678	14855															
		OBS	0600	0613	35015	2757			14855															
		OBS	0630	0514	34910	2761			14819															
		STD	0700	0500	3494	2765	0005368	0735	14825															
		OBS	0700	0500	34938	2765			14825															
		STD	0800	0464	3496	2770	0004904	0786	14827															
		OBS	0800	0464	34955	2770			14827															
		OBS	0830	0441	34930	2771			14822															
		OBS	0852	0460	34960	2771			14834															
		STD	0900	0463	3499	2773	0004741	0835	14843															
		OBS	0900	0463	34990	2773			14843															
		STD	1000	0418	3494	2774	0004651	0882	14841															
		OBS	1000	0418	34940	2774			14841															
		STD	1100	0415	3496	2776	0004577	0928	14856															
		OBS	1100	0415	34958	2776			14856															
		STD	1200	0402	3495	2776	0004603	0974	14868															
		OBS	1200	0402	34945	2776			14868															
		STD	1300	0407	3496	2777	0004634	1020	14887															
		OBS	1300	0407	34962	2777			14887															
		STD	1400	0392	3496	2778	0004561	1066	14897															
		OBS	1400	0392	34958	2778			14897															
		STD	1500	0392	3498	2780	0004496	1111	14914															
		OBS	1500	0392	34979	2780			14914															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE 1/10	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318008	EV		4034 N	05030 W		150	00	04	03	061	1967	IIP 9850	3749	15	35	3	3		X1	0	3	0002
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. UM	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB										
						OT	SO	36	SO3	051	106	106	7	41								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S CYC			
		STO	0000	0735	3346	2618		0018448		0000	14784											
	061	OBS	0000	0735	33460	2618					14784											
		STO	0010	0731	3379	2645		0015936		0017	14788											
		OBS	0010	0731	33792	2645					14788											
		STO	0020	0732	3384	2649		0015577		0033	14791											
	006	OBS	0020	0732	33844	2649					14791											
		STO	0030	0728	3390	2653		0015129		0048	14792											
		OBS	0030	0728	33899	2653					14792											
		STO	0050	0768	3411	2664		0014173		0078	14813											
		OBS	0050	0768	34105	2664					14813											
		STO	0075	0921	3451	2672		0013466		0112	14881											
		OBS	0075	0921	34510	2672					14881											
		OBS	0089	1014	34711	2672					14920											
		OBS	0093	0934	34597	2677					14890											
		STO	0100	0971	3475	2683		0012527		0145	14906											
		OBS	0100	0971	34751	2683					14906											
		STO	0125	1046	3498	2688		0012133		0175	14941											
		OBS	0125	1046	34980	2688					14941											
		OBS	0139	1145	35256	2691					14982											
		STO	0150	1065	3514	2697		0011336		0205	14954											
		OBS	0150	1065	35140	2697					14954											
		OBS	0169	1047	35150	2701					14950											
		OBS	0170	1072	35212	2701					14960											
		STO	0200	0920	3502	2712		0009948		0258	14908											
		OBS	0200	0920	35018	2712					14908											
		OBS	0219	0965	35161	2716					14929											
		STO	0250	0875	3506	2722		0009032		0305	14899											
		OBS	0250	0875	35060	2722					14899											
		OBS	0290	0739	34870	2728					14852											
		STO	0300	0554	3459	2731		0008136		0348	14776											
		OBS	0300	0554	34590	2731					14776											
		OBS	0325	0430	34554	2742					14729											
		OBS	0340	0540	34720	2743					14779											
		OBS	0367	0340	34500	2747					14697											
		STO	0400	0506	3479	2753		0006159		0420	14776											
		OBS	0400	0506	34794	2753					14776											
		OBS	0440	0496	34850	2758					14779											
		OBS	0465	0531	34911	2759					14798											
		STO	0500	0497	3490	2762		0005365		0477	14790											
		OBS	0500	0497	34902	2762					14790											
		OBS	0529	0473	34893	2764					14785											
		OBS	0569	0494	34929	2765					14800											
		STO	0600	0463	3492	2767		0004949		0529	14793											
		OBS	0600	0463	34918	2767					14793											
		OBS	0630	0435	34899	2769					14786											
		STO	0700	0437	3491	2770		0004811		0578	14798											
		OBS	0700	0437	34909	2770					14798											
		STO	0800	0425	3492	2772		0004680		0625	14810											
		OBS	0800	0425	34921	2772					14810											
		OBS	0820	0424	34930	2773					14813											
		OBS	0830	0455	34979	2773					14828											
		STO	0900	0436	3496	2774		0004641		0672	14832											
		OBS	0900	0436	34958	2774					14832											
		STO	1000	0409	3493	2774		0004643		0718	14837											
		OBS	1000	0409	34926	2774					14837											
		STO	1100	0410	3494	2775		0004617		0765	14854											
		OBS	1100	0410	34944	2775					14854											
		STO	1200	0404	3495	2776		0004628		0811	14868											
		OBS	1200	0404	34945	2776					14868											
		STO	1300	0394	3495	2777		0004593		0857	14881											
		OBS	1300	0394	34945	2777					14881											
		STO	1400	0388	3494	2777		0004627		0903	14895											
		OBS	1400	0388	34942	2777					14895											
		STO	1500	0372	3495	2780		0004440		0948	14905											
		OBS	1500	0372	34951	2780					14905											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN INCH	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
318008	EV		4103 N	05032 W	150	10	04	03	094	1967	11P	9851	4389	15	35	4	2		X2	0 3	0003
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	SD	36	S23	058	110	090	7	38								
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH					
		STD	0000	0950	3455	2671	0013456	0000	14880												
094		OBS	0000	0950	34552	2671			14880												
		STD	0010	1025	3481	2678	0012792	0013	14912												
		OBS	0010	1025	34808	2678			14912												
		STD	0020	1120	3503	2678	0012792	0026	14951												
005		OBS	0020	1120	35030	2678			14951												
		STD	0030	1080	3494	2678	0012788	0039	14937												
		OBS	0030	1080	34940	2678			14937												
		STD	0050	1103	3503	2681	0012568	0064	14949												
		OBS	0050	1103	35030	2681			14949												
		STD	0075	1199	3528	2683	0012504	0095	14990												
		OBS	0075	1199	35280	2683			14990												
		STD	0100	1150	3517	2683	0012487	0127	14976												
		OBS	0100	1150	35170	2683			14976												
		OBS	0105	1104	35075	2685			14959												
		OBS	0116	1102	35075	2685			14960												
		STD	0125	0985	3484	2687	0012150	0157	14917												
		OBS	0125	0985	34840	2687			14917												
		STD	0150	0694	3430	2690	0011890	0187	14804												
		OBS	0150	0694	34298	2690			14804												
		OBS	0165	0625	34205	2691			14777												
		OBS	0175	1010	35095	2703															
		STD	0200	1018	3514	2705	0010650	0244	14945												
		OBS	0200	1018	35140	2705			14945												
		OBS	0215	1035	35223	2708			14955												
		STD	0250	0940	3515	2719	0009397	0294	14925												
		OBS	0250	0940	35150	2719			14925												
		STD	0300	0648	3478	2734	0007922	0337	14816												
		OBS	0300	0648	34780	2734			14816												
		OBS	0320	0697	34890	2736			14840												
		OBS	0365	0400	34590	2748			14723												
		OBS	0382	0510	34765	2750			14774												
		STD	0400	0412	3466	2752	0006096	0407	14735												
		OBS	0400	0412	34658	2752			14735												
		OBS	0420	0426	34705	2755			14745												
		OBS	0425	0493	34815	2756			14775												
		OBS	0435	0480	34810	2757			14771												
		OBS	0470	0514	34901	2760			14792												
		STD	0500	0513	3492	2762	0005404	0465	14797												
		OBS	0500	0513	34923	2762			14797												
		STD	0600	0477	3496	2769	0004821	0516	14799												
		OBS	0600	0477	34958	2769			14799												
		STD	0700	0446	3494	2771	0004704	0564	14802												
		OBS	0700	0446	34938	2771			14802												
		STD	0800	0438	3496	2774	0004526	0610	14816												
		OBS	0800	0438	34963	2774			14816												
		STD	0900	0430	3496	2774	0004545	0655	14829												
		OBS	0900	0430	34961	2774			14829												
		STD	1000	0422	3497	2776	0004516	0700	14843												
		OBS	1000	0422	34965	2776			14843												
		OBS	1020	0419	34960	2776			14845												
		OBS	1030	0401	34942	2776			14839												
		STD	1100	0411	3497	2777	0004453	0745	14855												
		OBS	1100	0411	34968	2777			14855												
		STD	1200	0407	3497	2777	0004504	0790	14870												
		OBS	1200	0407	34967	2777			14870												
		STD	1300	0384	3495	2778	0004466	0835	14877												
		OBS	1300	0384	34945	2778			14877												
		STD	1400	0382	3495	2779	0004469	0880	14893												
		OBS	1400	0382	34953	2779			14893												
		STD	1500	0379	3496	2779	0004494	0924	14908												
		OBS	1500	0379	34956	2779			14908												

REFERENCE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	CHART INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		HODC ATION NUMBER	
					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		TYPE	AMT		
318008	EV	4134 N	05032 W		150	10	04	03	135	1967	11P	9852	3977	15	33	3	2		X4	0 3	0004
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	SD	33	S05	085	094	089	6	41								
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYNS. M. 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{ol/l}$	TOTAL-P $\mu g - \text{ol/l}$	NO ₂ -N $\mu g - \text{ol/l}$	NO ₃ -N $\mu g - \text{ol/l}$	SiO ₄ -Si $\mu g - \text{ol/l}$	pH				
		STO	0000	1429	3563	2663	0014196		0000	15059											
135		OBS	0000	1429	35628	2663				15059											
		STO	0010	1429	3563	2663	0014226		0014	15061											
		OBS	0010	1429	35628	2663				15061											
		STO	0020	1424	3563	2664	0014175		0028	15061											
003		OBS	0020	1424	35625	2664				15061											
		STO	0030	1423	3563	2664	0014184		0043	15062											
		OBS	0030	1423	35625	2664				15062											
		STO	0050	1370	3557	2671	0013579		0070	15047											
		OBS	0050	1370	35570	2671				15047											
		OBS	0060	1378	35619	2673				15052											
		OBS	0068	1317	35475	2674				15031											
		STO	0075	1390	3571	2677	0013026		0104	15060											
		OBS	0075	1390	35710	2677				15060											
		OBS	0085	1398	35735	2678				15064											
		STO	0100	1348	3564	2681	0012772		0136	15049											
		OBS	0100	1348	35640	2681				15049											
		OBS	0110	1348	35642	2681				15051											
		STO	0125	1322	3559	2682	0012681		0168	15044											
		OBS	0125	1322	35592	2682				15044											
		STO	0150	1276	3549	2684	0012605		0199	15031											
		OBS	0150	1276	35490	2684				15031											
		OBS	0170	1228	35405	2687				15017											
		OBS	0175	1310	35648	2689				15049											
		STO	0200	1175	3544	2700	0011192		0259	15004											
		OBS	0200	1175	35442	2700				15004											
		STO	0250	1010	3527	2716	0009670		0311	14952											
		OBS	0250	1010	35270	2716				14952											
		STO	0300	0900	3517	2727	0008712		0357	14918											
		OBS	0300	0900	35170	2727				14918											
		OBS	0360	0755	35050	2740				14872											
		OBS	0380	0595	34800	2742				14809											
		OBS	0390	0636	34900	2745				14828											
		STO	0400	0550	3478	2746	0006800		0434	14793											
		OBS	0400	0550	34780	2746				14793											
		OBS	0410	0488	34705	2748				14769											
		OBS	0420	0535	34780	2748				14791											
		OBS	0440	0452	34690	2751				14759											
		OBS	0460	0510	34810	2753				14787											
		OBS	0478	0510	34830	2755				14791											
		STO	0500	0581	3499	2759	0005767		0497	14825											
		OBS	0500	0581	34990	2759				14825											
		OBS	0514	0581	34990	2759				14828											
		OBS	0540	0487	34880	2762				14792											
		OBS	0545	0502	34930	2764				14800											
		STO	0600	0495	3495	2767	0005078		0551	14806											
		OBS	0600	0495	34953	2767				14806											
		STO	0700	0467	3496	2771	0004773		0601	14812											
		OBS	0700	0467	34963	2771				14812											
		STO	0800	0462	3499	2773	0004621		0648	14826											
		OBS	0800	0462	34990	2773				14826											
		STO	0900	0448	3499	2775	0004553		0694	14837											
		OBS	0900	0448	34990	2775				14837											
		STO	1000	0427	3499	2777	0004393		0738	14845											
		OBS	1000	0427	34990	2777				14845											
		STO	1100	0417	3499	2778	0004366		0782	14858											
		OBS	1100	0417	34990	2778				14858											
		STO	1200	0408	3499	2779	0004348		0826	14871											
		OBS	1200	0408	34990	2779				14871											
		STO	1300	0401	3499	2780	0004352		0869	14885											
		OBS	1300	0401	34990	2780				14885											
		STO	1400	0389	3499	2781	0004288		0912	14896											
		OBS	1400	0389	34990	2781				14896											
		STO	1500	0383	3499	2782	0004297		0955	14911											
		OBS	1500	0383	34990	2782				14911											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE 10 11	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10'	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318008	EV	4151 N	05031 W	150	10	04	03	161	1967	11P	9853		3749	15	34	4	3		X0	0	3	0005
				WATER		WIND		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE		TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB															
DT		SD	36	508	088	050	044	7	40													
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
		STD	0000	0426	3328	2642	0016207	0000	14656													
161		OBS	0000	0426	33281	2642			14656													
		STD	0010	0410	3329	2644	0015991	0016	14651													
		OBS	0010	0410	33290	2644			14651													
		STD	0020	0410	3333	2647	0015675	0032	14654													
003		OBS	0020	0410	33333	2647			14654													
		STD	0030	0430	3340	2651	0015376	0047	14665													
		OBS	0030	0430	33400	2651			14665													
		OBS	0039	0473	33450	2650			14685													
		STD	0050	0345	3343	2662	0014349	0077	14632													
		OBS	0050	0345	33431	2662			14632													
		OBS	0060	0268	33400	2666			14600													
		OBS	0064	0287	33460	2669			14610													
		OBS	0068	0259	33460	2671			14599													
		STD	0075	0342	3360	2675	0013065	0111	14637													
		OBS	0075	0342	33600	2675			14637													
		OBS	0092	0444	33870	2686			14687													
		STD	0100	0280	3384	2700	0010702	0141	14618													
		OBS	0100	0280	33843	2700			14618													
		OBS	0107	0363	33941	2700			14656													
		STD	0125	0185	3387	2710	0009761	0167	14581													
		OBS	0125	0185	33869	2710			14581													
		OBS	0135	0160	33924	2716			14572													
		STD	0150	0241	3403	2718	0009014	0190	14612													
		OBS	0150	0241	34027	2718			14612													
		OBS	0181	0390	34380	2733			14686													
		OBS	0189	0373	34385	2735			14680													
		STD	0200	0410	3450	2740	0007074	0230	14699													
		OBS	0200	0410	34499	2740			14699													
		OBS	0222	0421	34534	2742			14708													
		STD	0250	0479	3467	2746	0006611	0265	14738													
		OBS	0250	0479	34668	2746			14738													
		OBS	0273	0597	34896	2750			14793													
		OBS	0293	0492	34780	2753			14752													
		STD	0300	0505	3480	2753	0005991	0296	14759													
		OBS	0300	0505	34799	2753			14759													
		OBS	0333	0564	34935	2757			14790													
		OBS	0382	0494	34910	2763			14769													
		STD	0400	0495	3491	2763	0005164	0352	14773													
		OBS	0400	0495	34910	2763			14773													
		OBS	0432	0501	34923	2763			14781													
		STD	0500	0481	3493	2766	0004949	0402	14784													
		OBS	0500	0481	34932	2766			14784													
		STD	0600	0465	3494	2769	0004847	0451	14794													
		OBS	0600	0465	34935	2769			14794													
		STD	0700	0458	3496	2772	0004656	0499	14808													
		OBS	0700	0458	34964	2772			14808													
		OBS	0783	0454	34964	2772			14820													
		STD	0800	0441	3496	2773	0004555	0545	14817													
		OBS	0800	0441	34964	2773			14817													
		STD	0900	0420	3496	2776	0004400	0590	14825													
		OBS	0900	0420	34964	2776			14825													
		STD	1000	0410	3496	2777	0004375	0634	14838													
		OBS	1000	0410	34964	2777			14838													
		STD	1100	0398	3496	2778	0004321	0677	14849													
		OBS	1100	0398	34964	2778			14849													
		STD	1200	0387	3496	2779	0004275	0720	14862													
		OBS	1200	0387	34964	2779			14862													
		STD	1300	0363	3496	2780	0004314	0763	14877													
		OBS	1300	0383	34964	2780			14877													
		STD	1400	0378	3496	2780	0004337	0806	14891													
		OBS	1400	0378	34964	2780			14891													
		STD	1500	0375	3496	2780	0004384	0850	14907													
		OBS	1500	0375	34964	2780			14907													

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT	
318008	EV	4210 N	05020 W	150 20	04	03	182	1967	IIP	9854	3475	15	34	2	2	X0	0	3	0006
				WATER	WIND			BARO- METER	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB									
				OT	SD	36	S11	081	072	072	36								
MESSENGER TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C	C
		STD	0000	0754	3385	2646	0015797		0000	14797									
182		OBS	0000	0754	33850	2646				14797									
		STD	0010	0745	3390	2651	0015334		0016	14795									
		OBS	0010	0745	33898	2651				14795									
002		OBS	0015	0650	33830	2659				14758									
		STD	0020	0712	3401	2664	0014074		0030	14786									
		OBS	0020	0712	34010	2664				14786									
		STD	0030	0738	3408	2666	0013916		0044	14798									
		OBS	0030	0738	34080	2666				14798									
		OBS	0038	0722	34113	2671				14794									
		STD	0050	0751	3421	2674	0013195		0071	14808									
		OBS	0050	0751	34205	2674				14808									
		OBS	0068	0795	34360	2680				14830									
		STD	0075	0815	3450	2688	0011948		0103	14841									
		OBS	0075	0815	34500	2688				14841									
		OBS	0082	0855	34580	2688				14858									
		STD	0100	0864	3479	2703	0010569		0131	14867									
		OBS	0100	0864	34790	2703				14867									
		OBS	0110	0940	34975	2705				14900									
		OBS	0120	0905	34975	2711				14888									
		STD	0125	0923	3504	2713	0009679		0156	14897									
		OBS	0125	0923	35040	2713				14897									
		OBS	0132	0951	35120	2715				14909									
		STD	0150	0920	3514	2721	0008959		0180	14901									
		OBS	0150	0920	35138	2721				14901									
		STD	0200	0780	3503	2735	0007735		0221	14855									
		OBS	0200	0780	35030	2735				14855									
		OBS	0224	0707	35001	2743				14830									
		STD	0250	0696	3501	2745	0006822		0258	14830									
		OBS	0250	0696	35005	2745				14830									
		STD	0300	0598	3494	2753	0006082		0290	14799									
		OBS	0300	0598	34940	2753				14799									
		OBS	0350	0553	34959	2760				14789									
		OBS	0373	0492	34897	2762				14767									
		STD	0400	0481	3493	2766	0004857		0345	14767									
		OBS	0400	0481	34929	2766				14767									
		STD	0500	0456	3494	2770	0004587		0392	14774									
		OBS	0500	0456	34941	2770				14774									
		OBS	0549	0454	34963	2772				14781									
		OBS	0565	0425	34937	2773				14771									
		STD	0600	0425	3494	2773	0004346		0437	14777									
		OBS	0600	0425	34939	2773				14777									
		STD	0700	0420	3497	2776	0004173		0479	14792									
		OBS	0700	0420	34968	2776				14792									
		STD	0800	0407	3496	2777	0004170		0521	14803									
		OBS	0800	0407	34961	2777				14803									
		STD	0900	0403	3496	2777	0004210		0563	14818									
		OBS	0900	0403	34962	2777				14818									
		STD	1000	0389	3496	2779	0004142		0604	14829									
		OBS	1000	0389	34961	2779				14829									
		STD	1100	0385	3496	2779	0004183		0646	14844									
		OBS	1100	0385	34961	2779				14844									
		STD	1200	0375	3496	2780	0004149		0688	14857									
		OBS	1200	0375	34961	2780				14857									
		STD	1300	0375	3496	2780	0004228		0730	14873									
		OBS	1300	0375	34962	2780				14873									
		STD	1400	0368	3496	2781	0004224		0772	14887									
		OBS	1400	0368	34962	2781				14887									
		STD	1500	0363	3496	2781	0004251		0814	14902									
		OBS	1500	0363	34961	2781				14902									

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318008	EV	4230 N	05020 W	150	20	04 03 205	1967	11P	9855		2834	15	34	2	2		X2	0	3		0007
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
				01	SD	36	S11	085	072	072	6	30									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	S Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CUT				
		STD	0000	0358	3316	2639	0016485	0000	14626												
	205	OBS	0000	0358	33159	2639			14626												
		STD	0010	0315	3314	2641	0016235	0016	14609												
		OBS	0010	0315	33143	2641			14609												
		STD	0020	0310	3320	2646	0015805	0032	14609												
	002	OBS	0020	0310	33195	2646			14609												
		STD	0030	0410	3375	2680	0012583	0047	14661												
		OBS	0030	0410	33745	2680			14661												
		OBS	0040	0430	33840	2686			14672												
		OBS	0042	0400	33800	2685			14659												
		STD	0050	0229	3386	2706	0010135	0069	14588												
		OBS	0050	0229	33860	2706			14588												
		STD	0075	0362	3423	2723	0008507	0093	14654												
		OBS	0075	0362	34230	2723			14654												
		STD	0100	0610	3463	2727	0008261	0114	14766												
		OBS	0100	0610	34630	2727			14766												
		STD	0125	0708	3489	2734	0007636	0133	14813												
		OBS	0130	0716	34910	2735			14817												
		OBS	0145	0716	34920	2735			14820												
		STD	0150	0725	3497	2738	0007316	0152	14825												
		OBS	0150	0725	34970	2738			14825												
		STD	0200	0650	3496	2748	0006460	0187	14803												
		OBS	0200	0650	34960	2748			14803												
		STD	0250	0529	3484	2754	0005909	0217	14761												
		OBS	0250	0529	34840	2754			14761												
		OBS	0260	0525	34860	2756			14761												
		OBS	0263	0552	34900	2756			14773												
		STD	0300	0474	3484	2760	0005311	0246	14747												
		OBS	0300	0474	34842	2760			14747												
		OBS	0325	0505	34931	2764			14765												
		STD	0400	0475	3494	2768	0004698	0296	14765												
		OBS	0400	0475	34941	2768			14765												
		STD	0500	0465	3497	2771	0004469	0341	14778												
		OBS	0500	0465	34971	2771			14778												
		STD	0600	0467	3501	2774	0004322	0385	14796												
		OBS	0600	0467	35009	2774			14796												
		STD	0700	0457	3503	2777	0004125	0428	14808												
		OBS	0700	0457	35034	2777			14808												
		STD	0800	0438	3503	2779	0004015	0468	14817												
		OBS	0800	0438	35032	2779			14817												
		STD	0900	0421	3501	2779	0004058	0509	14826												
		OBS	0900	0421	35012	2779			14826												
		STD	1000	0412	3501	2780	0004075	0549	14839												
		OBS	1000	0412	35008	2780			14839												
		STD	1100	0397	3500	2781	0004021	0590	14850												
		OBS	1100	0397	35003	2781			14850												
		STD	1200	0383	3500	2783	0003946	0630	14860												
		OBS	1200	0383	35002	2783			14860												
		STD	1300	0382	3500	2783	0004029	0670	14877												
		OBS	1300	0382	35001	2783			14877												
		STD	1400	0374	3500	2784	0004015	0710	14890												
		OBS	1400	0374	35001	2784			14890												
		STD	1500	0369	3500	2784	0004035	0750	14905												
		OBS	1500	0369	35001	2784			14905												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NODC STATION NUMBER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318008	EV		4240 N	05020 W	150	20	04	03	218	1967	11P	9856	2195	15	34	2	2		X2	0	3		0008
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)		WET BULB		VIS. CODE													
		DT	SD	36	S08	085		050		050						6		31					
MISSING TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DTN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO ₂ -N $\mu g - \text{dl/l}$	NO ₃ -N $\mu g - \text{dl/l}$	Si O ₄ -Si $\mu g - \text{dl/l}$	pH				
		STD	0000	0515	3330	2633		0016993		0000		14694											
	218	OBS	0000	0515	33299	2633						14694											
		STD	0010	0495	3330	2636		0016788		0017		14687											
		OBS	0010	0495	33299	2636						14687											
		STD	0020	0380	3325	2644		0015999		0033		14640											
	003	OBS	0020	0380	33252	2644						14640											
		STD	0030	0295	3326	2653		0015170		0049		14605											
		OBS	0030	0295	33263	2653						14605											
		STD	0050	0290	3338	2662		0014255		0078		14608											
		OBS	0050	0290	33380	2662						14608											
		STD	0075	0232	3369	2692		0011455		0110		14591											
		OBS	0075	0232	33690	2692						14591											
		STD	0100	0420	3433	2726		0008343		0135		14684											
		OBS	0100	0420	34331	2726						14684											
		STD	0125	0483	3449	2731		0007878		0155		14717											
		OBS	0125	0483	34486	2731						14717											
		OBS	0135	0501	34560	2735						14727											
		STD	0150	0501	3460	2738		0007240		0174		14730											
		OBS	0150	0501	34602	2738						14730											
		STD	0200	0501	3475	2750		0006185		0208		14740											
		OBS	0200	0501	34751	2750						14740											
		OBS	0220	0551	34889	2755						14766											
		OBS	0235	0551	34889	2755						14768											
		OBS	0245	0502	34829	2756						14749											
		STD	0250	0510	3484	2756		0005684		0238		14753											
		OBS	0250	0510	34840	2756						14753											
		STD	0300	0520	3490	2759		0005416		0265		14766											
		OBS	0300	0520	34900	2759						14766											
		OBS	0350	0488	34902	2763						14762											
		STD	0400	0515	3497	2765		0004972		0317		14782											
		OBS	0400	0515	34968	2765						14782											
		OBS	0435	0472	34957	2769						14770											
		STD	0500	0457	3496	2771		0004494		0365		14774											
		OBS	0500	0457	34955	2771						14774											
		OBS	0570	0475	34972	2770						14793											
		STD	0600	0447	3497	2773		0004388		0409		14787											
		OBS	0600	0447	34968	2773						14787											
		STD	0700	0458	3500	2774		0004389		0453		14808											
		OBS	0700	0458	35000	2774						14808											
		STD	0800	0450	3503	2778		0004177		0496		14822											
		OBS	0800	0450	35030	2778						14822											
		STD	0900	0420	3502	2780		0003964		0536		14826											
		OBS	0900	0420	35023	2780						14826											
		STD	1000	0379	3497	2780		0003963		0576		14825											
		OBS	1000	0379	34969	2780						14825											
		STD	1100	0378	3497	2781		0004039		0616		14841											
		OBS	1100	0378	34969	2781						14841											
		STD	1200	0375	3497	2781		0004082		0657		14857											
		OBS	1200	0375	34970	2781						14857											
		STD	1300	0368	3497	2782		0004089		0698		14870											
		OBS	1300	0368	34969	2782						14870											
		STD	1400	0365	3497	2782		0004135		0739		14886											
		OBS	1400	0365	34969	2782						14886											
		STD	1500	0362	3497	2782		0004179		0780		14902											
		OBS	1500	0362	34969	2782						14902											

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER SEA	TYPE		AMT		
																			10"	
318008	EV		4250 N	05020 W	150 20	04 03 235	1967	11P	9857		0284	02	34	1	2		X4	0 3		0009
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
												DT	SD	36	S08	091	040	040	3	27
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · dl/l	TOTAL-P μg · dl/l	NO ₂ -N μg · dl/l	NO ₃ -N μg · dl/l	SiO ₄ -Si μg · dl/l	pH	S CODE			
		STD	0000	0835	3376	2627	0017637	0000	14826											
	235	OBS	0000	0835	33755	2627			14826											
		OBS	0005	0810	33723	2628			14817											
		STD	0010	0879	3396	2635	0016814	0017	14847											
	002	OBS	0010	0879	33955	2635			14847											
		OBS	0015	0700	33700	2642			14776											
		OBS	0019	0570	33500	2643			14722											
		STD	0020	0623	3359	2643	0016080	0034	14745											
		OBS	0025	0840	34000	2645			14836											
		STD	0030	0980	3432	2647	0015726	0050	14893											
		OBS	0030	0980	34318	2647			14893											
		OBS	0040	0880	34280	2661			14857											
		STD	0050	1012	3468	2670	0013607	0079	14912											
		OBS	0052	1038	34760	2672			14923											
		OBS	0055	0830	34470	2683			14843											
		STD	0075	0324	3368	2683	0012300	0111	14631											
		OBS	0075	0324	33680	2683			14631											
		OBS	0077	0277	33640	2684			14610											
		OBS	0087	0130	33630	2695			14547											
		OBS	0095	0251	33750	2695			14603											
		STD	0100	0213	3383	2705	0010259	0139	14589											
		OBS	0100	0213	33830	2705			14589											
		OBS	0110	0330	33990	2707			14643											
		OBS	0112	0352	34020	2708			14653											
		STD	0125	0638	3444	2708	0010066	0165	14779											
		OBS	0125	0638	34440	2708			14779											
		OBS	0133	0703	34590	2711			14808											
		STD	0150	0561	3452	2725	0008537	0188	14753											
		OBS	0150	0561	34522	2725			14753											
		OBS	0161	0719	34839	2729			14822											
		OBS	0175	0711	34889	2734			14822											
		OBS	0182	0498	34620	2740			14734											
		OBS	0197	0470	34578	2740			14725											
		STD	0200	0440	3457	2742	0006860	0227	14712											
		OBS	0200	0440	34570	2742			14712											
		OBS	0210	0330	34498	2748			14667											
		STD	0250	0310	3449	2749	0006202	0259	14665											
		OBS	0250	0310	34489	2749			14665											

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER			
318008	EV	4300 N	05020 W	150 30	04 04 010	1967	11P	9858		0098	01	34	2	2		X4	0 3	0010
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. INT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
		DT	SD	36	S08		098	044					044	3	09			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · dl/l	TOTAL-P μg · dl/l	NO ₂ -N μg · dl/l	NO ₃ -N μg · dl/l	SiO ₄ -Si μg · dl/l	pH	S CODE	
		STD	0000	0170	3296	2638	0016517	0000	14541									
	010	OBS	0000	0170	32960	2638			14541									
		STD	0010	0148	3299	2642	0016184	0016	14534									
		OBS	0010	0148	32985	2642			14534									
		STD	0020	0128	3301	2645	0015884	0032	14527									
	002	OBS	0020	0128	33008	2645			14527									
		STD	0030	0121	3302	2646	0015750	0048	14525									
		OBS	0030	0121	33020	2646			14525									
		OBS	0035	0117	33094	2653			14525									
		OBS	0037	0139	33112	2653			14536									
		OBS	0040	0082	33115	2656			14511									
		STD	0050	0051	3323	2667	0013750	0078	14500									
		OBS	0060	0030	33307	2675			14493									
		STD	0075	0025	3334	2677	0012789	0111	14494									
		OBS	0085	0022	33358	2679			14494									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318008	EV		4310 N	05020 W		150	30	04	04	021	1967	IIP 9859	0084	01	36	3	6		X4	0	3	0011
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE									
						0T	SD	19	S05	088	033	033	3	07								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0374	3264	2596	0020545	0000	14626								
	021	OBS	0000	0374	32640	2596			14626								
		OBS	0005	0373	32639	2596			14626								
		STD	0010	0337	3263	2598	0020329	0020	14611								
	001	OBS	0010	0337	32626	2598			14611								
		STD	0020	0192	3295	2636	0016784	0039	14554								
		OBS	0020	0192	32945	2636			14554								
		STD	0030	0100	3304	2649	0015480	0055	14516								
		OBS	0030	0100	33039	2649			14516								
		STD	0050	0029	3340	2682	0012333	0083	14492								
		OBS	0050	0029	33401	2682			14492								
		OBS	0060	0028	33401	2682			14493								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ACTION INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT
318008	EV		4439 N	04909 W		149	49	04	04	110	1967	IIP 9860	0063	00	14	2	2		X2	0	3		0012
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE										
						DT	SD	16	S11	037	020	020	0	05									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	-0072	3301	2655	0014904	0000	14432								
	110	OBS	0000	-0072	33010	2655			14432								
		STD	0010	-0072	3301	2655	0014899	0015	14434								
		OBS	0010	-0072	33010	2655			14434								
		STD	0020	-0072	3301	2655	0014894	0030	14435								
	001	OBS	0020	-0072	33010	2655			14435								
		STD	0030	-0090	3301	2656	0014828	0045	14429								
		OBS	0030	-0090	33010	2656			14429								
		STD	0050	-0097	3309	2662	0014219	0074	14430								
		OBS	0050	-0097	33085	2662			14430								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT	

318008	EV	4434	N	04840	W	149	48	04	04	139	1967	JIP	9862	2103	15	18	3	2	X2	013	0014
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB		

DT	SD	18	518	024	061	061	2	35
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MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Σ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	0391	3373	2680	0012525	0000	14648								
139		OBS	0000	0391	33725	2680			14648								
		OBS	0008	0391	33725	2680			14649								
		STD	0010	0360	3372	2683	0012295	0012	14636								
003		OBS	0010	0360	33718	2683			14636								
		OBS	0011	0307	33718	2688			14614								
		STD	0020	0370	3398	2703	0010421	0024	14645								
		OBS	0020	0370	33980	2703			14645								
		OBS	0025	0450	34140	2707			14682								
		STD	0030	0417	3418	2714	0009381	0034	14670								
		OBS	0030	0417	34180	2714			14670								
		OBS	0040	0400	34320	2727			14666								
		STD	0050	0364	3429	2728	0008040	0051	14652								
		OBS	0050	0364	34292	2728			14652								
		OBS	0060	0430	34460	2735			14684								
		OBS	0070	0519	34620	2737			14724								
		STD	0075	0528	3469	2742	0006799	0070	14730								
		OBS	0075	0528	34690	2742			14730								
		OBS	0090	0605	34850	2745			14766								
		STD	0100	0600	3486	2746	0006406	0086	14765								
		OBS	0100	0600	34862	2746			14765								
		STD	0125	0360	3458	2751	0005897	0102	14667								
		OBS	0125	0360	34580	2751			14667								
		OBS	0135	0392	34640	2753			14683								
		STD	0150	0310	3456	2754	0005634	0116	14649								
		OBS	0150	0310	34555	2754			14649								
		OBS	0190	0329	34619	2758			14665								
		STD	0200	0355	3465	2758	0005386	0143	14678								
		OBS	0200	0355	34650	2758			14678								
		OBS	0225	0400	34750	2761			14702								
		STD	0250	0455	3486	2764	0004923	0169	14731								
		OBS	0250	0455	34858	2764			14731								
		OBS	0262	0435	34855	2766			14724								
		STD	0300	0477	3492	2766	0004801	0194	14749								
		OBS	0300	0477	34915	2766			14749								
		STD	0400	0467	3493	2768	0004672	0241	14762								
		OBS	0400	0467	34932	2768			14762								
		STD	0500	0455	3497	2772	0004397	0286	14774								
		OBS	0500	0455	34965	2772			14774								
		STD	0600	0419	3495	2775	0004195	0329	14775								
		OBS	0600	0419	34950	2775			14775								
		STD	0700	0401	3495	2776	0004123	0371	14784								
		OBS	0700	0401	34945	2776			14784								
		STD	0800	0395	3495	2777	0004125	0412	14798								
		OBS	0800	0395	34948	2777			14798								
		STD	0900	0388	3495	2778	0004120	0453	14812								
		OBS	0900	0388	34950	2778			14812								
		STD	1000	0384	3495	2778	0004163	0495	14827								
		OBS	1000	0384	34950	2778			14827								
		STD	1100	0389	3496	2779	0004247	0537	14846								
		OBS	1100	0389	34959	2779			14846								
		STD	1200	0373	3496	2780	0004161	0579	14856								
		OBS	1200	0373	34956	2780			14856								
		STD	1300	0372	3496	2780	0004234	0621	14872								
		OBS	1300	0372	34956	2780			14872								
		STD	1400	0366	3496	2781	0004236	0663	14886								
		OBS	1400	0366	34957	2781			14886								
		STD	1500	0363	3496	2781	0004273	0706	14902								
		OBS	1500	0363	34958	2781			14902								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318008		EV	4431 N	04827 W		149	48	04	04	153	1967	11P	9863	3200	15	18	3	2		X2	0	3	0015
		WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE					DRY BULB	WET BULB														
DT	SD	18	S24	007	083	078	5	34															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S CL						
		STD	0000	0909	3409	2641	0016283	0000	14859														
153		OBS	0000	0909	34085	2641			14859														
		OBS	0009	0887	34085	2644			14852														
		STD	0010	0814	3409	2656	0014901	0016	14824														
006		OBS	0010	0814	34085	2656			14824														
		OBS	0012	0728	34020	2663			14791														
		STD	0020	0720	3401	2663	0014180	0030	14789														
		OBS	0020	0720	34010	2663			14789														
		OBS	0023	0779	34135	2665			14814														
		STD	0030	0730	3420	2677	0012914	0044	14797														
		OBS	0030	0730	34200	2677			14797														
		OBS	0035	0827	34469	2684			14838														
		OBS	0040	0695	34400	2697			14787														
		STD	0050	0583	3426	2701	0010628	0067	14742														
		OBS	0050	0583	34260	2701			14742														
		OBS	0060	0655	34440	2706			14775														
		OBS	0065	0734	34690	2715			14810														
		STD	0075	0710	3469	2718	0009092	0092	14803														
		OBS	0075	0710	34687	2718			14803														
		OBS	0089	0648	34723	2729			14781														
		STD	0100	0710	3485	2731	0007920	0113	14809														
		OBS	0100	0710	34850	2731			14809														
		STD	0125	0675	3489	2739	0007194	0132	14800														
		OBS	0125	0675	34890	2739			14800														
		OBS	0132	0650	34890	2742			14791														
		OBS	0145	0705	35020	2745			14817														
		STD	0150	0690	3502	2747	0006467	0149	14811														
		OBS	0150	0690	35020	2747			14811														
		STD	0200	0573	3495	2757	0005556	0179	14772														
		OBS	0200	0573	34950	2757			14772														
		STD	0250	0550	3496	2761	0005252	0206	14771														
		OBS	0250	0550	34962	2761			14771														
		STD	0300	0490	3497	2768	0004541	0231	14755														
		OBS	0300	0490	34970	2768			14755														
		STD	0400	0447	3495	2772	0004308	0275	14753														
		OBS	0400	0447	34950	2772			14753														
		STD	0500	0423	3495	2774	0004178	0317	14760														
		OBS	0500	0423	34945	2774			14760														
		STD	0600	0409	3494	2775	0004148	0359	14771														
		OBS	0600	0409	34941	2775			14771														
		STD	0700	0396	3494	2776	0004103	0400	14782														
		OBS	0700	0396	34940	2776			14782														
		STD	0800	0384	3494	2778	0004057	0441	14793														
		OBS	0800	0384	34940	2778			14793														
		STD	0900	0380	3494	2778	0004100	0482	14808														
		OBS	0900	0380	34940	2778			14808														
		STD	1000	0377	3494	2778	0004153	0523	14824														
		OBS	1000	0377	34940	2778			14824														
		STD	1100	0374	3494	2779	0004204	0565	14839														
		OBS	1100	0374	34940	2779			14839														
		STD	1200	0371	3495	2780	0004180	0607	14855														
		OBS	1200	0371	34950	2780			14855														
		STD	1300	0371	3495	2780	0004266	0649	14872														
		OBS	1300	0371	34950	2780			14872														
		STD	1400	0371	3495	2780	0004343	0692	14888														
		OBS	1400	0371	34951	2780			14888														
		STD	1500	0369	3497	2782	0004262	0735	14905														
		OBS	1500	0369	34970	2782			14905														

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
						10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
318008	EV		4429 N	04813 W	149	48	04	04 171	1967	111	9864	3475	15	16	4	2		X4	0 3	0016		
						WATER		WIND		BARO-		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	CODE									
						DT	SD	17	S32	997	094	089	6	30								
MESSAGE TIME HR 1/10	CST NO.	CST TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S	C				
171		STD	0000	0929	3418	2645	0015922	0000	14867													
		OBS	0000	0929	34175	2645			14867													
		STD	0010	0929	3418	2645	0015942	0016	14869													
		OBS	0010	0929	34175	2645			14869													
002		OBS	0015	0928	34176	2645			14869													
		STD	0020	0905	3418	2649	0015571	0032	14862													
		OBS	0020	0905	34178	2649			14862													
		OBS	0027	0850	34155	2656			14842													
		STD	0030	0950	3440	2659	0014643	0047	14883													
		OBS	0030	0950	34400	2659			14883													
		OBS	0033	0985	34642	2672			14899													
		STD	0050	0750	3420	2674	0013218	0075	14808													
		OBS	0050	0750	34200	2674			14808													
		OBS	0070	0358	33827	2692			14647													
		STD	0075	0460	3412	2705	0010311	0104	14694													
		OBS	0075	0460	34121	2705			14694													
		OBS	0080	0736	34680	2714			14814													
		STD	0100	0900	3504	2717	0009305	0129	14884													
		OBS	0100	0900	35035	2717			14884													
		STD	0125	0820	3499	2725	0008501	0151	14857													
		OBS	0125	0820	34987	2725			14857													
		STD	0150	0735	3495	2735	0007603	0171	14828													
		OBS	0150	0735	34950	2735			14828													
		STD	0200	0690	3499	2744	0006778	0207	14819													
		OBS	0200	0690	34989	2744			14819													
		OBS	0240	0588	34908	2752			14784													
		STD	0250	0595	3496	2754	0005862	0239	14789													
		OBS	0250	0595	34955	2754			14789													
		STD	0300	0536	3494	2760	0005333	0267	14773													
		OBS	0300	0536	34937	2760			14773													
		STD	0400	0465	3492	2767	0004738	0317	14761													
		OBS	0400	0465	34920	2767			14761													
		STD	0500	0434	3493	2771	0004422	0363	14764													
		OBS	0500	0434	34929	2771			14764													
		STD	0600	0421	3493	2773	0004367	0407	14775													
		OBS	0600	0421	34930	2773			14775													
		STD	0700	0401	3493	2775	0004234	0450	14784													
		OBS	0700	0401	34930	2775			14784													
		STD	0800	0394	3493	2776	0004247	0492	14797													
		OBS	0800	0394	34930	2776			14797													
		STD	0900	0386	3493	2777	0004245	0534	14811													
		OBS	0900	0386	34930	2777			14811													
		STD	1000	0379	3494	2778	0004184	0577	14824													
		OBS	1000	0379	34939	2778			14824													
		STD	1100	0375	3494	2779	0004224	0619	14840													
		OBS	1100	0375	34939	2779			14840													
		STD	1200	0374	3494	2779	0004291	0661	14856													
		OBS	1200	0374	34940	2779			14856													
		STD	1300	0375	3494	2779	0004375	0705	14873													
		OBS	1300	0375	34942	2779			14873													
		STD	1400	0373	3496	2780	0004339	0748	14889													
		OBS	1400	0373	34955	2780			14889													
		STD	1500	0365	3496	2781	0004262	0791	14903													
		OBS	1500	0365	34963	2781			14903													

REFERENCE		SHIP	LATITUDE	LONGITUDE	ABORT	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CITY CODE	ID. NO.	CODE	* 1/10	* 1/10	1/10	10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT					
318008	EV		4426 N	04759 W		149	47	04	04	186	1967	11P 9865	3658	15	17	5	2		X4	0	3	0017			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						01	50	16	532	983	089	089	4	31											
MESSAGE TIME OF HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -S μg - dl/l	pH	S C C						
186		STD	0000	0882	3416	2651		0015304		0000	14849														
		OBS	0000	0882	34162	2651					14849														
003		STD	0010	0851	3417	2657		0014804		0015	14840														
		OBS	0010	0851	34170	2657					14840														
		STD	0020	0470	3380	2678		0012771		0029	14685														
		OBS	0020	0470	33800	2678					14685														
		OBS	0025	0320	33635	2680					14620														
		STD	0030	0270	3378	2696		0011034		0041	14602														
		OBS	0030	0270	33783	2696					14602														
		STD	0050	0260	3392	2708		0009928		0062	14602														
		OBS	0050	0260	33920	2708					14602														
		OBS	0060	0339	34110	2716					14641														
		OBS	0070	0500	34386	2721					14713														
		STD	0075	0530	3445	2723		0008618		0085	14727														
		OBS	0075	0530	34450	2723					14727														
		STD	0100	0621	3472	2733		0007697		0105	14772														
		OBS	0100	0621	34724	2733					14772														
		OBS	0110	0590	34755	2739					14762														
		OBS	0120	0628	34820	2740					14779														
		STD	0125	0611	3482	2742		0006877		0124	14773														
		OBS	0132	0597	34825	2744					14769														
		STD	0150	0610	3488	2746		0006483		0140	14778														
	OBS	0150	0610	34878	2746					14778															
	STD	0200	0574	3491	2754		0005851		0171	14772															
	OBS	0200	0574	34912	2754					14772															
	OBS	0240	0530	34930	2761					14761															
	STD	0250	0540	3495	2761		0005257		0199	14767															
	OBS	0250	0540	34945	2761					14767															
	STD	0300	0520	3497	2765		0004932		0224	14767															
	OBS	0300	0520	34965	2765					14767															
	OBS	0350	0475	34947	2768					14757															
	STD	0400	0472	3496	2769		0004559		0272	14764															
	OBS	0400	0472	34955	2769					14764															
	STD	0500	0450	3497	2773		0004279		0316	14772															
	OBS	0500	0450	34973	2773					14772															
	STD	0600	0456	3502	2776		0004123		0358	14791															
	OBS	0600	0456	35018	2776					14791															
	STD	0700	0423	3500	2778		0004008		0399	14794															
	OBS	0700	0423	34995	2778					14794															
	STD	0800	0410	3500	2779		0003953		0438	14805															
	OBS	0800	0410	34995	2779					14805															
	STD	0900	0396	3498	2780		0003993		0478	14816															
	OBS	0900	0396	34980	2780					14816															
	STD	1000	0389	3498	2780		0004002		0518	14829															
	OBS	1000	0389	34980	2780					14829															
	STD	1100	0383	3498	2781		0004019		0558	14843															
	OBS	1100	0383	34980	2781					14843															
	STD	1200	0378	3498	2781		0004061		0599	14858															
	OBS	1200	0378	34978	2781					14858															
	STD	1300	0371	3498	2782		0004060		0639	14872															
	OBS	1300	0371	34978	2782					14872															
	STD	1400	0367	3498	2782		0004094		0680	14887															
	OBS	1400	0367	34978	2782					14887															
	STD	1500	0363	3498	2783		0004119		0721	14902															
	OBS	1500	0363	34979	2783					14902															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT	
31	8008	EV	4422 N	04739 W	149	47	04	04 206	1967	IIP	9866	3749	15	17	5	2		X6	0 3	0018
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. m1	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
		DT	SD	17	530	983	090	090	4											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC
		STD	0000	0597	3361	2648	0015600	0000	14731								
	206	OBS	0000	0597	33609	2648			14731								
		STD	0010	0595	3361	2648	0015589	0016	14732								
		OBS	0010	0595	33609	2648			14732								
		STD	0020	0440	3360	2665	0013964	0030	14670								
	002	OBS	0020	0440	33600	2665			14670								
		STD	0030	0360	3375	2685	0012068	0043	14640								
		OBS	0030	0360	33750	2685			14640								
		STD	0050	0182	3383	2707	0010011	0065	14567								
		OBS	0050	0182	33830	2707			14567								
		STD	0075	0330	3420	2724	0008435	0089	14640								
		OBS	0075	0330	34200	2724			14640								
		OBS	0085	0444	34370	2726			14693								
		OBS	0089	0385	34330	2729			14668								
		STD	0100	0575	3469	2736	0007363	0108	14753								
		OBS	0100	0575	34693	2736			14753								
		STD	0125	0595	3481	2743	0006768	0126	14767								
		OBS	0125	0595	34810	2743			14767								
		STD	0150	0588	3487	2749	0006276	0142	14769								
		OBS	0150	0588	34869	2749			14769								
		STD	0200	0547	3493	2758	0005389	0171	14761								
		OBS	0200	0547	34930	2758			14761								
		STD	0250	0521	3495	2763	0004993	0197	14759								
		OBS	0250	0521	34950	2763			14759								
		STD	0300	0508	3496	2766	0004804	0222	14762								
		OBS	0300	0508	34963	2766			14762								
		STD	0400	0477	3498	2771	0004408	0268	14766								
		OBS	0400	0477	34983	2771			14766								
		STD	0500	0453	3498	2774	0004239	0311	14773								
		OBS	0500	0453	34983	2774			14773								
		STD	0600	0438	3500	2777	0004037	0353	14783								
		OBS	0600	0438	35001	2777			14783								
		STD	0700	0432	3501	2778	0004003	0393	14798								
		OBS	0700	0432	35010	2778			14798								
		STD	0800	0407	3501	2781	0003814	0432	14804								
		OBS	0800	0407	35009	2781			14804								
		STD	0900	0395	3500	2781	0003819	0470	14815								
		OBS	0900	0395	35002	2781			14815								
		STD	1000	0385	3500	2782	0003813	0508	14828								
		OBS	1000	0385	34999	2782			14828								
		STD	1100	0378	3499	2782	0003884	0547	14841								
		OBS	1100	0378	34990	2782			14841								
		STD	1200	0373	3499	2782	0003947	0586	14856								
		OBS	1200	0373	34985	2782			14856								
		STD	1300	0369	3499	2783	0003983	0625	14871								
		OBS	1300	0369	34985	2783			14871								
		STD	1400	0366	3499	2783	0004030	0666	14887								
		OBS	1400	0366	34985	2783			14887								
		STD	1500	0361	3499	2784	0004049	0706	14901								
		OBS	1500	0361	34985	2784			14901								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NODC STATION NUMBER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318008	EV	4418 N	047185W	149	47	04	04	228	1967	IIP	9867	3840	15	28	3	2			X6	0	3		0019	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						OT	SO	28	S30	003	061	061	5	31										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	TEMP °C							
		STD	0000	1000	3428	2641	0016266	0000	14895															
228		OBS	0000	1000	34280	2641			14895															
		STD	0010	1004	3429	2641	0016292	0016	14898															
		OBS	0010	1004	34288	2641			14898															
		STD	0020	1062	3463	2658	0014739	0032	14925															
003		OBS	0020	1062	34631	2658			14925															
		STD	0030	1187	3493	2657	0014781	0047	14974															
		OBS	0030	1187	34925	2657			14974															
		OBS	0038	1248	35218	2668			15000															
		STD	0050	1240	3522	2670	0013624	0075	14999															
		OBS	0050	1240	35222	2670			14999															
		STD	0075	1224	3522	2673	0013435	0109	14998															
		OBS	0075	1224	35216	2673			14998															
		OBS	0090	1226	35238	2674			15001															
		STD	0100	1246	3530	2675	0013295	0142	15011															
		OBS	0100	1246	35300	2675			15011															
		STD	0125	1274	3540	2677	0013166	0175	15025															
		OBS	0125	1274	35399	2677			15025															
		OBS	0138	1277	35434	2679			15029															
		STD	0150	1251	3546	2686	0012348	0207	15023															
		OBS	0150	1251	35460	2686			15023															
		OBS	0170	1235	35509	2693			15021															
		STD	0200	1135	3541	2705	0010701	0265	14990															
		OBS	0200	1135	35410	2705			14990															
		STD	0250	0981	3524	2719	0009406	0315	14941															
		OBS	0250	0981	35240	2719			14941															
		STD	0300	0863	3513	2730	0008411	0360	14904															
		OBS	0300	0863	35132	2730			14904															
		STD	0400	0697	3505	2748	0006758	0435	14856															
		OBS	0400	0697	35048	2748			14856															
		STD	0500	0521	3494	2762	0005376	0496	14800															
		OBS	0500	0521	34940	2762			14800															
		OBS	0560	0495	34940	2765			14800															
		OBS	0571	0553	35108	2772			14827															
		STD	0600	0500	3500	2769	0004828	0547	14809															
		OBS	0600	0500	34995	2769			14809															
		OBS	0618	0476	34981	2771			14802															
		STD	0700	0498	3504	2773	0004588	0594	14825															
		OBS	0700	0498	35040	2773			14825															
		STD	0800	0478	3505	2776	0004414	0639	14834															
		OBS	0800	0478	35045	2776			14834															
		STD	0900	0450	3504	2778	0004231	0682	14839															
		OBS	0900	0450	35037	2778			14839															
		STD	1000	0437	3503	2779	0004238	0725	14850															
		OBS	1000	0437	35028	2779			14850															
		STD	1100	0402	3500	2781	0004105	0767	14852															
		OBS	1100	0402	35000	2781			14852															
		STD	1200	0392	3499	2781	0004139	0808	14864															
		OBS	1200	0392	34991	2781			14864															
		STD	1300	0388	3499	2781	0004186	0849	14879															
		OBS	1300	0388	34990	2781			14879															
		STD	1400	0365	3497	2782	0004164	0891	14886															
		OBS	1400	0365	34965	2782			14886															
		STD	1500	0368	3497	2782	0004235	0933	14904															
		OBS	1500	0368	34972	2782			14904															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MAPS/DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318008	EV		4419 N	04648 W	149	46	04 06 064	1967	11P	9868	3840	15	25	3	2		X1	0	3	0020
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOP CODE	TRANS. IMI	DIR.	SPEED OR FORCE		ORY BULB	WET BULB														
DT	SD	27	S10	261	030	030	6	30												
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -S $\mu\text{g} \cdot \text{at/l}$	pH	S C			
		STD	0000	1169	3539	2697	0010959	0000	14969											
064		OBS	0000	1169	35390	2697			14969											
		STD	0010	1169	3539	2697	0010992	0011	14971											
		OBS	0010	1169	35389	2697			14971											
007		STD	0020	1169	3539	2697	0011018	0022	14972											
		OBS	0020	1169	35389	2697			14972											
		OBS	0025	1169	35389	2697			14973											
		STD	0030	1168	3539	2697	0011025	0033	14973											
		OBS	0030	1168	35389	2697			14973											
		STD	0050	1169	3539	2697	0011093	0055	14977											
		OBS	0050	1169	35389	2697			14977											
		STD	0075	1169	3539	2697	0011157	0083	14981											
		OBS	0075	1169	35389	2697			14981											
		STD	0100	1169	3539	2697	0011220	0111	14985											
		OBS	0100	1169	35389	2697			14985											
		STD	0125	1170	3539	2697	0011301	0139	14990											
		OBS	0125	1170	35389	2697			14990											
		STD	0150	1169	3539	2697	0011345	0167	14993											
		OBS	0150	1169	35389	2697			14993											
		STD	0200	1181	3542	2697	0011463	0224	15006											
		OBS	0200	1181	35420	2697			15006											
		STD	0250	1200	3547	2697	0011612	0282	15022											
		OBS	0250	1200	35465	2697			15022											
		OBS	0280	1199	35465	2697			15026											
		STD	0300	1183	3544	2698	0011591	0340	15024											
		OBS	0300	1183	35442	2698			15024											
		OBS	0340	1087	35383	2712			14996											
		OBS	0352	1097	35415	2712			15002											
		STD	0400	0903	3521	2729	0008703	0442	14936											
		OBS	0400	0903	35205	2729			14936											
		STD	0500	0708	3506	2747	0006994	0520	14877											
		OBS	0500	0708	35059	2747			14877											
		STD	0600	0602	3503	2759	0005923	0585	14851											
		OBS	0600	0602	35025	2759			14851											
		STD	0700	0532	3503	2768	0005117	0640	14839											
		OBS	0700	0532	35027	2768			14839											
		STD	0800	0477	3502	2774	0004571	0688	14833											
		OBS	0800	0477	35022	2774			14833											
		STD	0900	0438	3501	2778	0004252	0732	14833											
		OBS	0900	0438	35014	2778			14833											
		OBS	0940	0428	34998	2778			14836											
		OBS	0965	0458	35050	2778			14853											
		STD	1000	0458	3505	2779	0004327	0775	14859											
		OBS	1000	0458	35052	2779			14859											
		STD	1100	0440	3505	2780	0004216	0818	14868											
		OBS	1100	0440	35050	2780			14868											
		STD	1200	0421	3503	2781	0004190	0860	14877											
		OBS	1200	0421	35034	2781			14877											
		STD	1300	0408	3503	2782	0004185	0902	14888											
		OBS	1300	0408	35025	2782			14888											
		STD	1400	0398	3502	2783	0004155	0944	14901											
		OBS	1400	0398	35024	2783			14901											
		STD	1500	0394	3502	2783	0004215	0985	14916											
		OBS	1500	0394	35021	2783			14916											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORBIT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYR	AMT	
318008	EV		4411 N	04608 W		149	46	04	06	109	1967	11P	9869	3878	15	31	3	2		X1	0	3	0021
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
OT	SO	26	514	271	072	067	7	38															
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₃ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	DATE						
		STD	0000	0814	3437	2678	0012787	0000	14826														
109		OBS	0000	0814	34367	2678			14826														
		STD	0010	0817	3438	2678	0012788	0013	14829														
		OBS	0010	0817	34375	2678			14829														
		STD	0020	0822	3439	2678	0012804	0026	14833														
005		OBS	0020	0822	34385	2678			14833														
		OBS	0025	0830	34400	2678			14837														
		STD	0030	0835	3441	2678	0012795	0038	14840														
		OBS	0030	0835	34414	2678			14840														
		STD	0050	0846	3444	2678	0012838	0064	14848														
		OBS	0050	0846	34435	2678			14848														
		STD	0075	0788	3445	2688	0011932	0095	14830														
		OBS	0075	0788	34450	2688			14830														
		OBS	0085	0799	34490	2690			14836														
		OBS	0094	0711	34365	2692			14802														
		STD	0100	0759	3449	2695	0011269	0124	14823														
		OBS	0100	0759	34490	2695			14823														
		OBS	0105	0730	34448	2696			14812														
		STD	0125	0787	3456	2696	0011225	0152	14839														
		OBS	0125	0787	34555	2696			14839														
		STD	0150	0865	3473	2698	0011109	0180	14875														
		OBS	0150	0865	34732	2698			14875														
		OBS	0154	0824	34800	2710			14861														
		OBS	0170	0850	34920	2715			14875														
		OBS	0174	0770	34800	2718			14844														
		OBS	0190	0864	35000	2720			14885														
		STD	0200	0786	3490	2724	0008785	0230	14855														
		OBS	0200	0786	34900	2724			14855														
		OBS	0220	0686	34795	2730			14818														
		OBS	0237	0809	35055	2732			14872														
		STD	0250	0750	3496	2734	0007925	0272	14850														
		OBS	0250	0750	34958	2734			14850														
		OBS	0284	0670	34940	2743			14825														
		STD	0300	0671	3495	2744	0006953	0309	14828														
		OBS	0300	0671	34952	2744			14828														
		OBS	0310	0659	34952	2746			14825														
		OBS	0327	0708	35085	2749			14848														
		STD	0400	0653	3510	2758	0005751	0372	14839														
		OBS	0400	0653	35102	2758			14839														
		OBS	0450	0536	34988	2764			14799														
		STD	0500	0525	3499	2766	0005070	0426	14803														
		OBS	0500	0525	34988	2766			14803														
		STD	0600	0479	3499	2771	0004623	0475	14800														
		OBS	0600	0479	34988	2771			14800														
		STD	0700	0458	3501	2775	0004315	0519	14808														
		OBS	0700	0458	35010	2775			14808														
		STD	0800	0432	3499	2776	0004268	0562	14814														
		OBS	0800	0432	34988	2776			14814														
		STD	0900	0423	3500	2778	0004208	0605	14827														
		OBS	0900	0423	34995	2778			14827														
		STD	1000	0432	3502	2779	0004212	0647	14848														
		OBS	1000	0432	35023	2779			14848														
		STD	1100	0418	3503	2781	0004084	0688	14859														
		OBS	1100	0418	35030	2781			14859														
		STD	1200	0404	3502	2782	0004069	0729	14870														
		OBS	1200	0404	35021	2782			14870														
		STD	1300	0395	3501	2782	0004113	0770	14882														
		OBS	1300	0395	35012	2782			14882														
		STD	1400	0387	3501	2783	0004101	0811	14896														
		OBS	1400	0387	35012	2783			14896														
		STD	1500	0377	3501	2784	0004066	0852	14908														
		OBS	1500	0377	35011	2784			14908														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318008	EV		4403 N	04529 W	149	45	04 06 131	1967	IIP	9870		4316	15	31	2	3		X1	0 3	0022
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
		DT	SD	26	506	284	067	067	7											
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S °C			
		STD	0000	0751	3407	2664	0014126	0000	14798											
131		OBS	0000	0751	34069	2664			14798											
		STD	0010	0746	3407	2664	0014074	0014	14798											
		OBS	0010	0746	34069	2664			14798											
		STD	0020	0746	3407	2664	0014090	0028	14800											
005		OBS	0020	0746	34069	2664			14800											
		STD	0030	0745	3407	2664	0014092	0042	14801											
		OBS	0030	0745	34069	2664			14801											
		STD	0050	0746	3408	2665	0014071	0070	14805											
		OBS	0050	0746	34078	2665			14805											
		OBS	0063	0747	34115	2668			14808											
		OBS	0070	0773	34395	2686			14822											
		STD	0075	0766	3439	2687	0012038	0103	14821											
		OBS	0075	0766	34394	2687			14821											
		OBS	0080	0749	34370	2687			14814											
		STD	0100	0825	3464	2698	0011086	0132	14851											
		OBS	0100	0825	34642	2698			14851											
		OBS	0103	0828	34680	2700			14853											
		OBS	0110	0766	34633	2706			14829											
		STD	0125	0731	3468	2714	0009549	0158	14819											
		OBS	0125	0731	34675	2714			14819											
		OBS	0130	0802	34907	2722			14850											
		OBS	0140	0781	34905	2725			14844											
		STD	0150	0733	3482	2725	0008541	0180	14826											
		OBS	0150	0733	34820	2725			14826											
		OBS	0174	0661	34796	2733			14801											
		STD	0200	0674	3485	2735	0007633	0221	14811											
		OBS	0200	0674	34845	2735			14811											
		OBS	0227	0673	34928	2742			14816											
		STD	0250	0600	3489	2749	0006387	0256	14790											
		OBS	0250	0600	34893	2749			14790											
		OBS	0265	0573	34870	2751			14782											
		STD	0300	0609	3494	2752	0006208	0287	14803											
		OBS	0300	0609	34942	2752			14803											
		STD	0400	0572	3504	2764	0005130	0344	14806											
		OBS	0400	0572	35042	2764			14806											
		OBS	0450	0575	35087	2767			14816											
		STD	0500	0540	3508	2771	0004575	0393	14810											
		OBS	0500	0540	35080	2771			14810											
		OBS	0550	0494	35041	2774			14799											
		STD	0600	0493	3504	2774	0004393	0437	14807											
		OBS	0600	0493	35042	2774			14807											
		STD	0700	0448	3503	2778	0004061	0480	14805											
		OBS	0700	0448	35028	2778			14805											
		STD	0800	0421	3500	2779	0004047	0520	14810											
		OBS	0800	0421	35000	2779			14810											
		STD	0900	0420	3502	2780	0004024	0561	14826											
		OBS	0900	0420	35015	2780			14826											
		STD	1000	0415	3502	2780	0004053	0601	14841											
		OBS	1000	0415	35016	2780			14841											
		STD	1100	0401	3502	2782	0003975	0641	14851											
		OBS	1100	0401	35016	2782			14851											
		STD	1200	0387	3500	2782	0003988	0681	14862											
		OBS	1200	0387	35003	2782			14862											
		STD	1300	0382	3500	2783	0004037	0721	14877											
		OBS	1300	0382	35000	2783			14877											
		STD	1400	0373	3500	2783	0004024	0761	14890											
		OBS	1400	0373	34998	2783			14890											
		STD	1500	0369	3500	2784	0004057	0802	14905											
		OBS	1500	0369	34998	2784			14905											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	8008	EV	46574N	04758 W		149	67	04	07	108	1967	11P	9871	0166	01	32	4	2	X1	0	3	0023
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB										
						DT	SD	32	520	159	000	-011	7	12								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	SC
		STD	0000	-0088	3293	2650	0015449	0000	14423								
	108	OBS	0000	-0088	32932	2650			14423								
		STD	0010	-0088	3293	2650	0015443	0015	14425								
		OBS	0010	-0088	32932	2650			14425								
		STD	0020	-0086	3293	2650	0015444	0031	14428								
	002	OBS	0020	-0086	32932	2650			14428								
		STD	0030	-0085	3294	2650	0015419	0046	14430								
		OBS	0030	-0085	32935	2650			14430								
		STD	0050	-0084	3296	2652	0015235	0077	14434								
		OBS	0050	-0084	32958	2652			14434								
		OBS	0055	-0084	32990	2654			14435								
		OBS	0060	-0091	33043	2659			14433								
		OBS	0065	-0068	33082	2661			14446								
		STD	0075	-0069	3308	2661	0014327	0114	14447								
		OBS	0075	-0069	33082	2661			14447								
		OBS	0090	-0085	33103	2663			14442								
		STD	0100	-0076	3312	2664	0014006	0149	14448								
		OBS	0100	-0076	33119	2664			14448								
		OBS	0115	-0065	33150	2666			14456								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8008	EV	46574N	047415W		149	67	04	07	123	1967	11P	9872	0183	02	32	3	2		X1	0	3	0024
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB											
						DT	SD	31	513	183	-022	-028	7	18									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	SC
		STD	0000	-0118	3294	2651	0015305	0000	14409								
	123	OBS	0000	-0118	32939	2651			14409								
		STD	0010	-0118	3294	2651	0015298	0015	14411								
		OBS	0010	-0118	32939	2651			14411								
		STD	0020	-0118	3294	2651	0015292	0031	14413								
	002	OBS	0020	-0118	32939	2651			14413								
		STD	0030	-0118	3294	2651	0015285	0046	14414								
		OBS	0030	-0118	32939	2651			14414								
		OBS	0036	-0149	32980	2655			14401								
		OBS	0047	-0149	33071	2663			14404								
		STD	0050	-0145	3308	2663	0014131	0075	14407								
		OBS	0050	-0145	33078	2663			14407								
		OBS	0053	-0140	33088	2664			14410								
		OBS	0061	-0113	33170	2670			14425								
		STD	0075	-0115	3317	2670	0013495	0110	14427								
		OBS	0075	-0115	33170	2670			14427								
		OBS	0085	-0111	33209	2673			14431								
		STD	0100	-0051	3337	2684	0012194	0142	14463								
		OBS	0100	-0051	33369	2684			14463								
		OBS	0107	-0027	33340	2680			14475								
		OBS	0115	-0089	33339	2683			14448								
		STD	0125	0012	3350	2691	0011479	0172	14498								
		OBS	0125	0012	33500	2691			14498								
		OBS	0140	0068	33620	2698			14528								
		STD	0150	0072	3363	2698	0010850	0199	14531								
		OBS	0150	0072	33626	2698			14531								
		OBS	0170	0076	33630	2698			14537								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318008	EV		46574N	04728 W		149	67	04	07	134	1967	IIP 9873	0216	02	32	3	2		X1	0	3	0025				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																	
		OT	SD	31	S08	193	-022	-028	7	21																
MISSING R TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C								
		STD	0000	-0111	3305	2660	0014450		0000	14414																
	134	OBS	0000	-0111	33053	2660				14414																
		STD	0010	-0113	3306	2660	0014422		0014	14415																
		OBS	0010	-0113	33055	2660				14415																
		STD	0020	-0113	3306	2661	0014386		0029	14417																
	001	OBS	0020	-0113	33059	2661				14417																
		STD	0030	-0134	3314	2668	0013698		0043	14410																
		OBS	0030	-0134	33140	2668				14410																
		JBS	0045	-0134	33185	2671				14413																
		STD	0050	-0120	3325	2677	0012851		0069	14421																
		OBS	0050	-0120	33254	2677				14421																
		OBS	0058	-0119	33270	2678				14423																
		OBS	0068	-0143	33289	2680				14414																
		STD	0075	-0131	3330	2680	0012481		0101	14421																
		OBS	0075	-0131	33296	2680				14421																
		OBS	0083	-0123	33359	2685				14427																
		OBS	0089	-0058	33417	2688				14459																
		STD	0100	-0046	3344	2689	0011672		0131	14467																
		OBS	0100	-0046	33440	2689				14467																
		OBS	0107	0043	33572	2695				14510																
		OBS	0113	-0068	33530	2697				14460																
		STD	0125	0107	3386	2715	0009290		0157	14546																
		OBS	0125	0107	33860	2715				14546																
		OBS	0136	0150	33897	2715				14568																
		OBS	0140	0140	33890	2715				14564																
		STD	0150	0159	3393	2717	0009133		0181	14575																
		OBS	0150	0159	33928	2717				14575																
		OBS	0163	0174	34007	2722				14584																
		OBS	0168	0139	33975	2722				14569																
		OBS	0183	0219	34170	2731				14610																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCH	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT																	
31	8008	EV	46574N	047115W	149	67	04	07	147	1967	11P	9874	0603	06	19	3	2		X1	0	0	0026																		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																										
		COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	VS. CODE	NO. OBS. DEPTHS																															
		DT	SD	32	S08	200	-006	-017	7	25																														
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SIO ₄ -Si $\mu g - at/l$	pH	S C																							
		STD	0000	0141	3355	2688	0011845	0000	14537																															
147	OBS	0000	0141	33550	2688				14537																															
	STD	0010	0134	3355	2688		0011802	0012	14535																															
	OBS	0010	0134	33550	2688				14535																															
003	STD	0020	0126	3355	2689		0011752	0024	14533																															
	OBS	0020	0126	33550	2689				14533																															
	OBS	0025	0126	33550	2689				14534																															
	STD	0030	0177	3366	2694		0011244	0035	14559																															
	OBS	0030	0177	33662	2694				14559																															
	OBS	0045	0216	33770	2700				14580																															
	STD	0050	0266	3395	2710		0009750	0056	14605																															
	OBS	0050	0266	33950	2710				14605																															
	OBS	0053	0218	33940	2713				14585																															
	OBS	0059	0268	34120	2723				14610																															
	STD	0075	0273	3432	2739		0007030	0077	14618																															
	OBS	0075	0273	34320	2739				14618																															
	OBS	0083	0306	34421	2744				14634																															
	OBS	0087	0283	34421	2746				14625																															
	STD	0100	0284	3443	2747		0006325	0094	14628																															
	OBS	0100	0284	34428	2747				14628																															
	STD	0125	0308	3455	2754		0005621	0109	14644																															
	OBS	0125	0308	34552	2754				14644																															
	STD	0150	0350	3463	2757		0005431	0123	14667																															
	OBS	0150	0350	34632	2757				14667																															
	OBS	0160	0359	34655	2758				14673																															
	STD	0200	0361	3467	2758		0005332	0149	14681																															
	OBS	0200	0361	34665	2758				14681																															
	OBS	0218	0361	34666	2758				14684																															
	STD	0250	0426	3481	2763		0004949	0175	14718																															
	OBS	0250	0426	34812	2763				14718																															
	OBS	0275	0418	34812	2764				14719																															
	STD	0300	0440	3485	2765		0004870	0200	14733																															
	OBS	0300	0440	34850	2765				14733																															
	OBS	0350	0468	34911	2766				14753																															
	STD	0400	0467	3492	2767		0004754	0248	14761																															
	OBS	0400	0467	34921	2767				14761																															
	STD	0500	0451	3495	2771		0004469	0294	14772																															
	OBS	0500	0451	34949	2771				14772																															
	OBS	0575	0437	34949	2773				14778																															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.						10"	1'	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
318008	EV		46574N	04657 W		149	66	04	07	162	1967	11P	9875		1097	10	19	3	2		X1	0	3		0027
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB																			
DT	SU	05	S08		193	-006																		-017	7
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ D OYN, M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH									
		STD	0000	0350	3399	2706	0010145	0000	14634																
162		OBS	0000	0350	33990	2706			14634																
		STD	0010	0296	3399	2710	0009684	0010	14612																
		OBS	0010	0296	33989	2710			14612																
		STD	0020	0239	3399	2716	0009193	0019	14589																
002		OBS	0020	0239	33993	2716			14589																
		OBS	0025	0235	34029	2719			14589																
		STD	0030	0255	3409	2722	0008562	0028	14599																
		OBS	0030	0255	34094	2722			14599																
		OBS	0043	0130	34060	2729			14546																
		STD	0050	0142	3415	2736	0007307	0044	14554																
		OBS	0050	0142	34150	2736			14554																
		STD	0075	0268	3440	2746	0006376	0061	14616																
		OBS	0075	0268	34401	2746			14616																
		STD	0100	0279	3448	2751	0005867	0077	14626																
		OBS	0100	0279	34483	2751			14626																
		STD	0125	0309	3456	2755	0005539	0091	14645																
		OBS	0125	0309	34564	2755			14645																
		STD	0150	0326	3461	2757	0005384	0104	14657																
		OBS	0150	0326	34608	2757			14657																
		STD	0200	0333	3465	2760	0005173	0131	14668																
		OBS	0200	0333	34650	2760			14668																
		STD	0250	0363	3471	2762	0005058	0156	14690																
		OBS	0251	0364	34712	2762			14691																
		STD	0300	0423	3482	2764	0004885	0181	14725																
		OBS	0300	0423	34823	2764			14725																
		STD	0400	0465	3490	2766	0004880	0230	14760																
		OBS	0400	0465	34901	2766			14760																
		STD	0500	0463	3493	2769	0004736	0278	14776																
		OBS	0500	0463	34932	2769			14776																
		STD	0600	0438	3493	2771	0004549	0325	14783																
		OBS	0600	0438	34932	2771			14783																
		STD	0700	0426	3493	2773	0004511	0370	14794																
		OBS	0700	0426	34932	2773			14794																
		STD	0800	0412	3493	2774	0004444	0415	14805																
		OBS	0800	0412	34932	2774			14805																
		STD	0900	0398	3493	2776	0004372	0459	14816																
		OBS	0900	0398	34932	2776			14816																
		STD	1000	0387	3493	2777	0004332	0502	14828																
		OBS	1000	0387	34932	2777			14828																
		OBS	1050	0382	34932	2777			14834																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF C/MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA	
318008	EV		46575N	04643 W	149 66	04	07	175	1967	119	9876	1006	10	19	3	2	X1	0	3		0028

318008	EV		46575N	04643 W	149	66	04	07	175	1967	118	9876	1006	10	19	3	2		X1	0	3	0028
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WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	04	S08	193	-006	-017	7	24	
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY × 10 ³	Σ Δ O DYN. M. × 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	STATION NUMBER
		STD	0000	0429	3424	2717	0009045	0000	14671								
175		OBS	0000	0429	34237	2717			14671								
		STD	0010	0417	3426	2720	0008761	0009	14667								
		OBS	0010	0417	34260	2720			14667								
		STD	0020	0411	3426	2721	0008711	0018	14667								
002		OBS	0020	0411	34260	2721			14667								
		STD	0030	0407	3426	2721	0008680	0026	14667								
		OBS	0030	0407	34260	2721			14667								
		OBS	0040	0410	34337	2727			14670								
		STD	0050	0376	3448	2742	0006740	0042	14660								
		OBS	0050	0376	34480	2742			14660								
		OBS	0070	0308	34537	2753			14635								
		STD	0075	0320	3456	2753	0005655	0057	14641								
		OBS	0075	0320	34557	2753			14641								
		OBS	0080	0332	34574	2754			14647								
		STD	0100	0320	3459	2756	0005463	0071	14646								
		OBS	0100	0320	34585	2756			14646								
		OBS	0110	0312	34600	2758			14644								
		STD	0125	0320	3462	2758	0005234	0085	14650								
		OBS	0125	0320	34618	2758			14650								
		STD	0150	0324	3464	2760	0005132	0097	14656								
		OBS	0150	0324	34639	2760			14656								
		STD	0200	0360	3472	2762	0004925	0123	14681								
		OBS	0200	0360	34718	2762			14681								
		OBS	0211	0352	34718	2763			14679								
		STD	0250	0393	3479	2765	0004750	0147	14704								
		OBS	0250	0393	34792	2765			14704								
		STD	0300	0462	3490	2766	0004742	0171	14743								
		OBS	0300	0462	34900	2766			14743								
		STD	0400	0456	3491	2767	0004716	0218	14757								
		OBS	0400	0456	34909	2767			14757								
		STD	0500	0430	3493	2772	0004399	0263	14763								
		OBS	0500	0430	34926	2772			14763								
		STD	0600	0410	3493	2774	0004271	0307	14771								
		OBS	0600	0410	34926	2774			14771								
		STD	0700	0397	3493	2775	0004203	0349	14782								
		OBS	0700	0397	34928	2775			14782								
		STD	0800	0386	3493	2777	0004169	0391	14794								
		OBS	0800	0386	34928	2777			14794								
		STD	0900	0381	3493	2777	0004193	0433	14809								
		OBS	0900	0381	34929	2777			14809								
		OBS	0970	0368	34929	2778			14815								

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	$\Sigma \Delta \sigma$ DTN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	CO ₂
		STD	0000	0537	3407	2692	0011432	0000	14713								
187		OBS	0000	0537	34073	2692			14713								
		OBS	0005	0536	34073	2692			14713								
		STD	0010	0519	3407	2694	0011249	0011	14707								
001		OBS	0010	0519	34072	2694			14707								
		STD	0020	0495	3414	2702	0010472	0022	14700								
		OBS	0020	0495	34142	2702			14700								
		STD	0030	0475	3426	2714	0009419	0032	14695								
		OBS	0030	0475	34255	2714			14695								
		OBS	0035	0467	34275	2716			14693								
		STD	0050	0465	3429	2717	0009093	0051	14694								
		OBS	0050	0465	34287	2717			14694								
		OBS	0065	0445	34305	2721			14689								
		STD	0075	0400	3433	2728	0008125	0072	14672								
		OBS	0075	0400	34330	2728			14672								
		STD	0100	0337	3450	2747	0006260	0090	14652								
		OBS	0100	0337	34500	2747			14652								
		OBS	0114	0333	34555	2752			14653								
		STD	0125	0360	3461	2754	0005649	0105	14667								
		OBS	0125	0360	34613	2754			14667								
		OBS	0135	0355	34612	2755			14667								
		STD	0150	0387	3469	2757	0005397	0119	14684								
		OBS	0150	0387	34685	2757			14684								
		OBS	0155	0421	34778	2761			14700								
		OBS	0167	0387	34731	2761			14687								
		OBS	0180	0388	34720	2760			14689								
		STD	0200	0458	3489	2766	0004669	0144	14724								
		OBS	0200	0458	34889	2766			14724								
		STD	0250	0458	3489	2766	0004717	0167	14733								
		OBS	0250	0458	34890	2766			14733								
		STD	0300	0431	3489	2769	0004457	0190	14730								
		OBS	0300	0431	34892	2769			14730								
		OBS	0345	0415	34898	2771			14730								

MESSNGR TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\Delta\sigma^2$	$\Sigma \Delta$ D DTM, μg $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH
200		STD	0000	0491	3412	2701	0010564	0000	14695							
		OBS	0000	0491	34121	2701			14695							
		STD	0010	0491	3412	2701	0010575	0011	14696							
001		OBS	0010	0491	34121	2701			14696							
		STD	0020	0487	3412	2702	0010543	0021	14696							
		OBS	0020	0487	34121	2702			14696							
		STD	0030	0486	3412	2702	0010542	0032	14698							
		OBS	0030	0486	34121	2702			14698							
		STD	0050	0485	3412	2702	0010553	0053	14700							
		OBS	0050	0485	34121	2702			14700							
		OBS	0070	0431	34370	2727			14685							
		STD	0075	0437	3445	2733	0007601	0075	14689							
		OBS	0075	0437	34450	2733			14689							
		OBS	0095	0414	34438	2735			14683							
		STD	0100	0418	3445	2735	0007414	0094	14685							
		OBS	0100	0418	34452	2735			14685							
		STD	0125	0413	3448	2738	0007169	0112	14688							
		OBS	0125	0413	34481	2738			14688							
		STD	0150	0409	3464	2751	0005959	0129	14692							
	OBS	0150	0409	34640	2751			14692								
	OBS	0153	0426	34688	2753			14700								
	OBS	0180	0345	34590	2754			14669								
	STD	0200	0378	3467	2757	0005465	0157	14688								
	OBS	0200	0378	34670	2757			14688								
	OBS	0220	0468	34862	2762			14731								
	STD	0250	0436	3488	2767	0004542	0182	14723								
	OBS	0250	0436	34881	2767			14723								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT 1/10	MARS DEN		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
318008	EV	4719 N	04610 W		149	76	04	07	220	1967		IIP	9879	0384	03	30	3	J		X2	0 3	0031

WATER		WIND		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB		
DT	SD	03	S08	203	000	-011	7	18

MESSAGE TIME & HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY · 10 ³	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · dl/l	TOTAL-P μg · dl/l	NO ₂ -N μg · dl/l	NO ₃ -N μg · dl/l	SIO ₄ -Si μg · dl/l	pH	S C C
		STD	0000	0432	3438	2728	0008038	0000	14674								
	220	OBS	0000	0432	34375	2728			14674								
		STD	0010	0432	3438	2728	0008048	0008	14675								
		OBS	0010	0432	34375	2728			14675								
		STD	0020	0432	3438	2728	0008058	0016	14677								
	001	OBS	0020	0432	34375	2728			14677								
		STD	0030	0429	3438	2728	0008037	0024	14677								
		OBS	0030	0429	34375	2728			14677								
		STD	0050	0427	3438	2728	0008036	0040	14680								
		OBS	0050	0427	34375	2728			14680								
		STD	0075	0415	3438	2730	0007938	0060	14679								
		OBS	0075	0415	34375	2730			14679								
		STD	0100	0408	3438	2731	0007823	0080	14680								
		OBS	0100	0408	34384	2731			14680								
		STD	0125	0408	3442	2734	0007561	0099	14685								
		OBS	0125	0408	34422	2734			14685								
		STD	0150	0414	3454	2743	0006768	0117	14693								
		OBS	0150	0414	34539	2743			14693								
		OBS	0168	0363	34552	2749			14675								
		OBS	0182	0416	34707	2756			14701								
		OBS	0188	0396	34680	2756			14694								
		STD	0200	0415	3471	2756	0005516	0148	14704								
		OBS	0200	0415	34714	2756			14704								
		OBS	0237	0457	34842	2762			14729								
		STD	0250	0447	3485	2763	0004924	0174	14727								
		OBS	0250	0447	34846	2763			14727								
		OBS	0260	0465	34930	2768			14738								
		STD	0300	0439	3492	2770	0004328	0197	14733								
		OBS	0300	0439	34921	2770			14733								
		OBS	0350	0417	34921	2773			14732								

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WAVE DIR	WAVE HGT	WAVE PER	WAVE SEA	WAVE CODE	CLOUD CODE	NODC STATION NUMBER
318008	EV	4740 N	04610 W	149	76	04	08	000	1967	11P 9880

WATER	WIND	BARO-METER	AIR TEMP. °C	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB
DT	SD	05	S10	213	006 -006 7 23

MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SIO ₄ -Si μg - at/l	PH	S C
		STD	0000	0132	3387	2713	0009394	0000	14537								
000		OBS	0000	0132	33865	2713			14537								
		STD	0010	0100	3384	2714	0009386	0009	14524								
		OBS	0010	0100	33840	2714			14524								
		STD	0020	0198	3420	2735	0007314	0018	14574								
002		OBS	0020	0198	34200	2735			14574								
		OBS	0025	0208	34240	2738			14580								
		STD	0030	0182	3430	2744	0006482	0025	14570								
		OBS	0030	0182	34295	2744			14570								
		STD	0050	0241	3440	2748	0006147	0037	14601								
		OBS	0050	0241	34400	2748			14601								
		OBS	0055	0222	34400	2750			14593								
		STD	0075	0263	3447	2751	0005851	0052	14615								
		OBS	0075	0263	34465	2751			14615								
		STD	0100	0292	3453	2754	0005626	0067	14633								
		OBS	0100	0292	34530	2754			14633								
		OBS	0121	0311	34558	2754			14645								
		STD	0125	0302	3456	2755	0005514	0081	14642								
		OBS	0133	0295	34560	2756			14640								
		STD	0150	0331	3465	2760	0005100	0094	14659								
		OBS	0150	0331	34652	2760			14659								
		STD	0200	0331	3466	2760	0005094	0119	14668								
		OBS	0200	0331	34658	2760			14668								
		STD	0250	0336	3466	2760	0005136	0145	14678								
		OBS	0250	0336	34664	2760			14678								
		STD	0300	0393	3479	2765	0004804	0170	14712								
		OBS	0300	0393	34791	2765			14712								
		OBS	0383	0468	34920	2767			14759								
		STD	0400	0442	3491	2769	0004550	0216	14751								
		OBS	0400	0442	34910	2769			14751								
		STD	0500	0430	3492	2771	0004443	0261	14763								
		OBS	0500	0430	34920	2771			14763								
		STD	0600	0413	3492	2773	0004350	0305	14772								
		OBS	0600	0413	34920	2773			14772								
		STD	0700	0403	3492	2774	0004331	0349	14784								
		OBS	0700	0403	34920	2774			14784								
		STD	0800	0388	3492	2776	0004251	0392	14795								
		OBS	0800	0388	34920	2776			14795								
		STD	0900	0381	3492	2776	0004260	0434	14808								
		OBS	0900	0381	34920	2776			14808								
		OBS	0930	0377	34920	2777			14812								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDIC	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA	TYPE	AMT	
318008	EV		4759 N	04610 W		149	76	04	08	024	1967	11P 9881	1042	10	05	3	3		X7	0 3	0033

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	06	512	193	000	000	4	24	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. AL. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CL
		STD	0000	0391	3439	2733	0007548	0000	14657								
		OBS	0000	0391	34386	2733			14657								
024		STD	0010	0385	3445	2739	0007002	0007	14657								
		OBS	0010	0385	34452	2739			14657								
		STD	0020	0385	3448	2741	0006815	0014	14659								
004		OBS	0020	0385	34478	2741			14659								
		STD	0030	0379	3449	2742	0006668	0021	14658								
		OBS	0030	0379	34491	2742			14658								
		STD	0050	0362	3456	2749	0006041	0034	14655								
		OBS	0050	0362	34555	2749			14655								
		OBS	0072	0334	34640	2759			14648								
		STD	0075	0338	3465	2759	0005119	0048	14650								
		STD	0100	0369	3473	2762	0004836	0060	14668								
		OBS	0100	0369	34730	2762			14668								
		OBS	0105	0404	34820	2766			14685								
		OBS	0115	0372	34779	2766			14673								
		STD	0125	0372	3478	2766	0004519	0072	14674								
		OBS	0130	0372	34779	2766			14675								
		OBS	0135	0364	34770	2766			14673								
		STD	0150	0364	3477	2766	0004530	0083	14675								
		OBS	0150	0364	34770	2766			14675								
		STD	0200	0430	3488	2768	0004439	0105	14712								
		OBS	0200	0430	34879	2768			14712								
		OBS	0230	0424	34880	2769			14715								
		STD	0250	0427	3488	2769	0004422	0128	14720								
		OBS	0250	0427	34884	2769			14720								
		STD	0300	0439	3491	2770	0004395	0150	14733								
		OBS	0300	0439	34912	2770			14733								
		STD	0400	0432	3492	2771	0004355	0193	14747								
		OBS	0400	0432	34921	2771			14747								
		STD	0500	0422	3492	2772	0004338	0237	14759								
		OBS	0500	0422	34922	2772			14759								
		STD	0600	0412	3492	2773	0004316	0280	14772								
		OBS	0600	0412	34923	2773			14772								
		STD	0700	0399	3492	2775	0004256	0323	14783								
		OBS	0700	0399	34924	2775			14783								
		STD	0800	0390	3493	2776	0004237	0365	14796								
		OBS	0800	0390	34925	2776			14796								
		STD	0900	0382	3493	2777	0004227	0408	14809								
		OBS	0900	0382	34926	2777			14809								
		STD	1000	0369	3493	2778	0004162	0450	14820								
		OBS	1000	0369	34926	2778			14820								
		OBS	1020	0369	34926	2778			14824								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318008	EV		48155N	04610 W	149 86	04	08	046	1967	IIP	9882	1189	11	05	3	2		X7	0 3	0034
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
DT	SD	06	518	166	-006	-006	4	26												
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C			
		STD	0000	0009	3344	2687	0011947	0000	14475											
	046	OBS	0000	0009	33440	2687			14475											
		STD	0010	0008	3344	2687	0011940	0012	14477											
		OBS	0010	0008	33440	2687			14477											
		STD	0020	0006	3344	2687	0011928	0024	14477											
	004	OBS	0020	0006	33440	2687			14477											
		OBS	0025	0003	33440	2687			14477											
		STD	0030	0000	3344	2687	0011898	0036	14476											
		OBS	0030	0000	33440	2687			14476											
		OBS	0040	-0002	33520	2693			14478											
		STD	0050	0065	3388	2719	0008887	0057	14515											
		OBS	0050	0065	33879	2719			14515											
		STD	0075	0225	3430	2741	0006826	0076	14596											
		OBS	0075	0225	34295	2741			14596											
		STD	0100	0246	3440	2747	0006245	0093	14611											
		OBS	0100	0246	34396	2747			14611											
		STD	0125	0292	3448	2750	0006042	0108	14636											
		OBS	0125	0292	34477	2750			14636											
		STD	0150	0307	3456	2755	0005569	0122	14648											
		OBS	0150	0307	34560	2755			14648											
		STD	0200	0353	3472	2764	0004818	0148	14678											
		OBS	0200	0353	34723	2764			14678											
		STD	0250	0365	3476	2765	0004688	0172	14692											
		OBS	0250	0365	34762	2765			14692											
		STD	0300	0377	3479	2766	0004645	0195	14705											
		OBS	0300	0377	34790	2766			14705											
		OBS	0356	0371	34799	2768			14712											
		STD	0400	0413	3489	2770	0004406	0241	14738											
		OBS	0400	0413	34886	2770			14738											
		STD	0500	0411	3489	2771	0004460	0285	14754											
		OBS	0500	0411	34889	2771			14754											
		OBS	0540	0387	34879	2773			14751											
		OBS	0575	0441	34959	2773			14780											
		STD	0600	0438	3496	2773	0004356	0329	14783											
		OBS	0600	0438	34958	2773			14783											
		STD	0700	0419	3495	2775	0004280	0372	14792											
		OBS	0700	0419	34952	2775			14792											
		STD	0800	0410	3495	2776	0004272	0415	14804											
		OBS	0800	0410	34952	2776			14804											
		STD	0900	0399	3495	2777	0004251	0458	14816											
		OBS	0900	0399	34950	2777			14816											
		STD	1000	0390	3495	2778	0004243	0500	14829											
		OBS	1000	0390	34949	2778			14829											
		STD	1100	0380	3495	2779	0004211	0542	14842											
		OBS	1100	0380	34949	2779			14842											
		OBS	1140	0378	34949	2779			14848											

REFERENCE	SHIP CODE	LATITUDE	LONGITUDE	WAVE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
							CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT		
318008	EV	4835 N	04610 W	149 86	04 08 066	1967	IIP	9883	1646	15	04	3	2	X7	0	3	0035	
		WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. INT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
		OT	SO	OS	S18	152	-006	-006	4	28								
MESSAGE NO.	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D_2 ml/l	PO_4-P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO_3-N $\mu g - dl/l$	NO_2-N $\mu g - dl/l$	SiO_4-Si $\mu g - dl/l$	PH	DATE	
		STD	0000	0278	3434	2740	0006852	0000	14608									
066		OBS	0000	0278	34343	2740			14608									
		STD	0010	0280	3435	2740	0006837	0007	14610									
		OBS	0010	0280	34348	2740			14610									
		STD	0020	0284	3436	2741	0006787	0014	14614									
003		OBS	0020	0284	34360	2741			14614									
		OBS	0025	0285	34362	2741			14615									
		STD	0030	0287	3436	2741	0006788	0020	14617									
		OBS	0030	0287	34364	2741			14617									
		STD	0050	0289	3438	2742	0006690	0034	14621									
		OBS	0050	0289	34381	2742			14621									
		STD	0075	0410	3480	2764	0004695	0048	14682									
		OBS	0075	0410	34800	2764			14682									
		OBS	0090	0390	34800	2766			14677									
		OBS	0095	0420	34846	2766			14691									
		STD	0100	0405	3484	2767	0004376	0059	14685									
		OBS	0100	0405	34839	2767			14685									
		STD	0125	0389	3483	2769	0004283	0070	14682									
		OBS	0125	0389	34833	2769			14682									
		STD	0150	0397	3484	2768	0004358	0081	14690									
		OBS	0150	0397	34837	2768			14690									
		STD	0200	0404	3487	2770	0004232	0103	14701									
		OBS	0200	0404	34870	2770			14701									
		STD	0250	0408	3487	2769	0004338	0124	14711									
		OBS	0250	0408	34868	2769			14711									
		STD	0300	0415	3488	2770	0004373	0146	14723									
		OBS	0300	0415	34880	2770			14723									
		OBS	0331	0434	34907	2770			14736									
		STD	0400	0413	3490	2772	0004271	0189	14739									
		OBS	0400	0413	34904	2772			14739									
		STD	0500	0428	3492	2771	0004435	0233	14762									
		OBS	0500	0428	34918	2771			14762									
		STD	0600	0412	3492	2773	0004346	0276	14772									
		OBS	0600	0412	34919	2773			14772									
		STD	0700	0405	3492	2774	0004355	0320	14785									
		OBS	0700	0405	34920	2774			14785									
		STD	0800	0396	3492	2775	0004344	0363	14798									
		OBS	0800	0396	34920	2775			14798									
		STD	0900	0385	3492	2776	0004307	0407	14810									
		OBS	0900	0385	34920	2776			14810									
		STD	1000	0377	3492	2777	0004301	0450	14823									
		OBS	1000	0377	34920	2777			14823									
		STD	1100	0374	3492	2777	0004352	0493	14839									
		OBS	1100	0374	34920	2777			14839									
		STD	1200	0368	3493	2779	0004276	0536	14853									
		OBS	1200	0368	34932	2779			14853									
		STD	1300	0365	3494	2780	0004242	0579	14869									
		OBS	1300	0365	34943	2780			14869									
		STD	1400	0364	3494	2780	0004306	0621	14885									
		OBS	1400	0364	34944	2780			14885									
		STD	1500	0360	3495	2781	0004278	0664	14901									
		OBS	1500	0360	34952	2781			14901									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			CLOUD CODES	WEA- THER CODE	NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER			
318008	EV		4425 N	04811 W		149	48	04 09 091	1967	IIP	9884	3658	13	01	5	2		X2	0036

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		01	S25	112	050	044	5	13	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C
		STD	0000	0531	3396	2684	0012189	0000	14709								
		OBS	0000	0531	33963	2684			14709								
		STD	0010	0531	3396	2684	0012200	0012	14711								
		STD	0020	0531	3396	2684	0012219	0024	14712								
		OBS	0027	0531	33962	2684			14713								
		STD	0030	0455	3397	2693	0011370	0036	14683								
		STD	0050	0173	3400	2721	0008652	0056	14565								
		OBS	0053	0164	34006	2722			14562								
		STD	0075	0459	3447	2732	0007683	0077	14698								
		OBS	0080	0476	34517	2734			14707								
		STD	0100	0302	3439	2742	0006769	0095	14635								
		OBS	0106	0270	34369	2743			14622								
		STD	0125	0332	3452	2749	0006082	0111	14654								
		STD	0150	0386	3466	2755	0005575	0125	14683								
		OBS	0160	0399	34696	2757			14690								
		STD	0200	0386	3469	2757	0005413	0153	14691								
		OBS	0213	0382	34685	2758			14692								
		STD	0250	0428	3479	2761	0005135	0179	14719								
		STD	0300	0467	3488	2764	0004948	0204	14744								
		OBS	0319	0475	34904	2765			14751								
		STD	0400	0453	3491	2768	0004697	0253	14755								
		OBS	0426	0447	34908	2768			14757								
		STD	0500	0437	3492	2770	0004560	0299	14765								
		STD	0600	0423	3493	2772	0004427	0344	14776								
		OBS	T0644	0416	34929	2773			14781								
		STD	0700	0403	3492	2774	0004331	0388	14784								
		STD	0800	0386	3491	2775	0004302	0431	14794								
		OBS	T0858	0378	34907	2776			14800								
		STD	0900	0375	3491	2776	0004264	0474	14806								
		STD	1000	0370	3491	2777	0004292	0516	14820								
		OBS	1085	0367	34913	2777			14833								
		STD	1100	0367	3491	2777	0004312	0559	14836								
		STD	1200	0364	3492	2778	0004330	0603	14851								
		OBS	T1276	0363	34922	2778			14864								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

31	8008	EV	4428 N	04826 W	149	48	04	09 113	1967	11P	9885	3200	13	03	5	2		X2	7 8		0037
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

		03	525	132	056	050	5	13	
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MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY=10 ³	S.A.D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	Si O ₄ -Si µg - dl/l	pH	S C
		STD	0000	0510	3384	2677	0012856	0000	14699								
113		OBS	0000	0510	3384.3	2677			14699								
		STD	0010	0498	3385	2679	0012702	0013	14696								
		STD	0020	0487	3385	2680	0012543	0025	14693								
		STD	0030	0475	3386	2682	0012391	0038	14690								
113		OBS	0042	0461	33866	2684			14686								
		STD	0050	0347	3390	2699	0010833	0061	14640								
113		OBS	0051	0336	33910	2700			14635								
		STD	0075	0295	3428	2734	0007516	0084	14626								
113		OBS	0077	0291	34305	2736			14625								
		STD	0100	0449	3458	2742	0006778	0102	14700								
113		OBS	0102	0458	34595	2742			14704								
		STD	0125	0457	3460	2743	0006740	0119	14708								
		STD	0150	0446	3460	2744	0006648	0136	14707								
113		OBS	0154	0443	34602	2745			14707								
		STD	0200	0380	3462	2753	0005860	0167	14688								
113		OBS	0208	0376	34629	2754			14688								
		STD	0250	0445	3476	2757	0005545	0195	14725								
		STD	0300	0493	3487	2760	0005321	0222	14755								
113		OBS	T0316	0501	34894	2761			14761								
		STD	0400	0466	3490	2766	0004899	0274	14761								
113		OBS	0425	0457	34906	2767			14761								
		STD	0500	0444	3491	2769	0004708	0322	14768								
		STD	0600	0428	3491	2770	0004626	0368	14778								
113		OBS	T0643	0421	34906	2771			14782								
		STD	0700	0411	3491	2772	0004498	0414	14788								
		STD	0800	0396	3491	2774	0004418	0458	14798								
113		OBS	T0852	0388	34911	2775			14803								
		STD	0900	0380	3491	2776	0004307	0502	14808								
		STD	1000	0366	3491	2777	0004215	0545	14819								
113		OBS	T1080	0359	34916	2778			14829								
		STD	1100	0358	3492	2778	0004189	0587	14832								
		STD	1200	0354	3492	2779	0004216	0629	14847								
113		OBS	1266	0354	34917	2779			14858								

REFERENCE	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	EARTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE	AMT				
318008	EV	4431 N	04836 W		149	48	04	09	133		1967	IIP	9886		2468	15	03	6	2		X2	0	3	0038
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
					DT	SD	05	S28	139	056	050	6	36											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	Si O ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	3 CCT							
133	STD	0000	0612	3404	2680	0012593	0000	14743																
	OBS	0000	0612	34035	2680			14743																
003	STD	0010	0611	3404	2680	0012594	0013	14744																
	OBS	0010	0611	34035	2680			14744																
	STD	0020	0611	3404	2680	0012608	0025	14746																
	OBS	0020	0611	34035	2680			14746																
	OBS	0025	0609	34035	2680			14746																
	STD	0030	0605	3403	2681	0012556	0038	14745																
	OBS	0030	0605	34034	2681			14745																
	OBS	0043	0595	34022	2681			14743																
	STD	0050	0413	3413	2710	0009728	0060	14671																
	OBS	0050	0413	34131	2710			14671																
	OBS	0060	0414	34319	2725			14675																
	STD	0075	0681	3473	2725	0008394	0083	14792																
	OBS	0075	0681	34729	2725			14792																
	STD	0100	0585	3465	2732	0007790	0103	14757																
	OBS	0100	0585	34652	2732			14757																
	OBS	0115	0477	34528	2735			14713																
	STD	0125	0604	3479	2740	0007066	0122	14770																
	OBS	0125	0604	34785	2740			14770																
	OBS	0135	0623	34822	2740			14780																
	STD	0150	0597	3482	2743	0006775	0139	14772																
	OBS	0150	0597	34817	2743			14772																
	OBS	0170	0570	34814	2746			14764																
	OBS	0194	0619	34972	2753			14790																
	STD	0200	0607	3497	2754	0005817	0170	14786																
	OBS	0200	0607	34972	2754			14786																
	OBS	0204	0596	34970	2756			14782																
	OBS	0221	0605	34992	2756			14789																
	STD	0250	0573	3499	2760	0005341	0198	14781																
	OBS	0250	0573	34988	2760			14781																
	OBS	0269	0548	34989	2763			14774																
	STD	0300	0546	3499	2764	0005030	0224	14778																
	OBS	0300	0546	34994	2764			14778																
	OBS	0342	0500	34982	2768			14766																
	OBS	0380	0505	35010	2770			14775																
	STD	0400	0473	3498	2771	0004377	0471	14765																
	OBS	0400	0473	34981	2771			14765																
	STD	0500	0447	3499	2775	0004125	0314	14771																
	OBS	0500	0447	34989	2775			14771																
	STD	0600	0433	3499	2776	0004060	0355	14781																
	OBS	0600	0433	34990	2776			14781																
	STD	0700	0415	3498	2778	0004003	0395	14790																
	OBS	0700	0415	34983	2778			14790																
	STD	0800	0400	3498	2779	0003954	0435	14801																
	OBS	0800	0400	34979	2779			14801																
	STD	0900	0393	3498	2780	0003950	0474	14814																
	OBS	0900	0393	34981	2780			14814																
	STD	1000	0380	3497	2781	0003945	0514	14825																
	OBS	1000	0380	34973	2781			14825																
	STD	1100	0375	3498	2781	0003959	0553	14840																
	OBS	1100	0375	34975	2781			14840																
	STD	1200	0370	3498	2782	0003984	0593	14855																
	OBS	1200	0370	34975	2782			14855																
	STD	1300	0370	3498	2782	0004070	0633	14871																
	OBS	1300	0370	34975	2782			14871																
	STD	1400	0363	3498	2783	0004066	0674	14885																
	OBS	1400	0363	34975	2783			14885																
	STD	1500	0363	3498	2783	0004097	0715	14902																
	OBS	1500	0363	34982	2783			14902																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBSER INCHES	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA	TYPE	AMT	

318008		EV	4433 N	04856 W		149	48	04	09	150	1967	IIP 9887	1053	10	04	8	2		X2	0 3	0039
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WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	06	529	142	061	056	6	23	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	0427	3376	2679	0012620	0000	14663								
150		OBS	0000	0427	33759	2679			14663								
		STD	0010	0428	3376	2679	0012624	0013	14665								
		OBS	0010	0428	33761	2679			14665								
		STD	0020	0428	3376	2679	0012633	0025	14667								
002		OBS	0020	0428	33761	2679			14667								
		OBS	0025	0428	33761	2679			14668								
		STD	0030	0423	3376	2680	0012592	0038	14667								
		OBS	0030	0423	33761	2680			14667								
		STD	0050	0379	3374	2682	0012375	0063	14651								
		OBS	0050	0379	33735	2682			14651								
		STD	0075	0352	3376	2687	0011967	0093	14644								
		OBS	0075	0352	33758	2687			14644								
		OBS	0085	0350	33795	2690			14645								
		OBS	0094	0411	34008	2701			14675								
		STD	0100	0369	3408	2711	0009730	0120	14660								
		OBS	0100	0369	34079	2711			14660								
		STD	0125	0307	3433	2736	0007321	0142	14640								
		OBS	0125	0307	34325	2736			14640								
		STD	0150	0320	3454	2752	0005877	0158	14653								
		OBS	0150	0320	34535	2752			14653								
		STD	0200	0324	3459	2756	0005538	0187	14664								
		OBS	0200	0324	34590	2756			14664								
		STD	0250	0344	3464	2758	0005402	0214	14681								
		OBS	0250	0344	34639	2758			14681								
		STD	0300	0395	3474	2760	0005244	0241	14712								
		OBS	0300	0395	34735	2760			14712								
		STD	0400	0471	3492	2767	0004823	0291	14763								
		OBS	0400	0471	34918	2767			14763								
		STD	0500	0450	3494	2770	0004547	0338	14771								
		OBS	0500	0450	34937	2770			14771								
		STD	0600	0435	3494	2772	0004477	0383	14781								
		OBS	0600	0435	34937	2772			14781								
		STD	0700	0410	3493	2774	0004346	0427	14787								
		OBS	0700	0410	34929	2774			14787								
		STD	0800	0415	3494	2774	0004413	0471	14806								
		OBS	0800	0415	34941	2774			14806								
		STD	0900	0390	3494	2777	0004218	0514	14812								
		OBS	0900	0390	34940	2777			14812								
		STD	1000	0386	3494	2777	0004268	0556	14827								
		OBS	1000	0386	34939	2777			14827								
		OBS	1015	0386	34940	2777			14830								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318008	EV		4435 N	04903 W		149	49	04	09	168	1967	11P 9888		0430	04	05	8	2		X2	0 3		0040
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
DT	SD	06	530	132	061	056	6	18															
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH							
		STD	0000	0116	3330	2669	0013604	0000	14522														
168		OBS	0000	0116	33298	2669			14522														
		STD	0010	0115	3330	2669	0013606	0014	14523														
		OBS	0010	0115	33297	2669			14523														
		STD	0020	0111	3329	2669	0013606	0027	14523														
001		OBS	0020	0111	33294	2669			14523														
		OBS	0025	0110	33293	2669			14523														
		STD	0030	0103	3329	2669	0013603	0041	14521														
		OBS	0030	0103	33288	2669			14521														
		STD	0050	-0062	3333	2680	0012506	0067	14449														
		OBS	0050	-0062	33325	2680			14449														
		STD	0075	-0002	3352	2694	0011252	0097	14484														
		OBS	0075	-0002	33522	2694			14484														
		STD	0100	0229	3381	2702	0010534	0124	14596														
		OBS	0100	0229	33810	2702			14596														
		OBS	0105	0255	33853	2703			14608														
		OBS	0111	0115	33810	2710			14547														
		STD	0125	0132	3391	2717	0009091	0148	14558														
		OBS	0125	0132	33908	2717			14558														
		STD	0150	0412	3439	2731	0007843	0170	14690														
		OBS	0150	0412	34393	2731			14690														
		OBS	0165	0574	34665	2734			14763														
		STD	0200	0345	3442	2740	0007030	0207	14670														
		OBS	0200	0345	34418	2740			14670														
		OBS	0219	0370	34540	2747			14686														
		STD	0250	0324	3455	2753	0005854	0239	14671														
		OBS	0250	0324	34553	2753			14671														
		STD	0300	0361	3466	2758	0005440	0267	14697														
		OBS	0300	0361	34662	2758			14697														
		STD	0400	0426	3481	2763	0005154	0320	14743														
		OBS	0400	0426	34805	2763			14743														

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318008	EV		4436 N	04905 W		149	49	04	09	173	1967	11P 9889		0177	01	05	6	2		X2	0 3		0041
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB			WET BULB												
DT		SD		06		530		125		050		044		6		12							
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH				
		STD	0000	0032	3318	2664		0014080		0000		14482											
173		OBS	0000	0032	33175	2664						14482											
		STD	0010	0030	3318	2664		0014068		0014		14483											
		OBS	0010	0030	33175	2664						14483											
		STD	0020	-0016	3315	2664		0014043		0028		14463											
001		OBS	0020	-0016	33150	2664						14463											
		OBS	0025	-0035	33160	2666						14455											
		STD	0030	-0051	3316	2667		0013819		0042		14449											
		OBS	0030	-0051	33160	2667						14449											
		OBS	0040	-0071	33223	2673						14442											
		STD	0050	-0068	3330	2679		0012683		0069		14446											
		OBS	0050	-0068	33299	2679						14446											
		STD	0075	-0022	3345	2688		0011747		0099		14474											
		OBS	0075	-0022	33445	2688						14474											
		STD	0100	0040	3359	2697		0010944		0127		14508											
		OBS	0100	0040	33590	2697						14508											
		OBS	0120	0208	33930	2713						14591											
		STD	0125	0198	3393	2714		0009413		0153		14588											
		OBS	0125	0198	33928	2714						14588											
		STD	0150	0170	3398	2720		0008834		0176		14580											
		OBS	0150	0170	33978	2720						14580											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

318008 EV 4437 N 04912 W 149 49 04 09 180 1967 IIP 9890 0055 00 04 8 2 X2 0 3 0042

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT SD 06 S30 125 050 044 6 05

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	-0063	3312	2664	0014086	0000	14438								
	180	OBS	0000	-0063	33121	2664			14438								
		STD	0010	-0064	3312	2664	0014070	0014	14439								
		OBS	0010	-0064	33122	2664			14439								
	001	STD	0020	-0070	3313	2665	0014006	0028	14438								
		OBS	0020	-0070	33127	2665			14438								
		STD	0030	-0076	3314	2666	0013918	0042	14437								
		OBS	0030	-0076	33135	2666			14437								
		STD	0050	-0086	3321	2672	0013337	0069	14436								
		OBS	0050	-0086	33205	2672			14436								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

318008 EV 44172N 049130W 149 49 04 22 204 1967 IIP 9891 0084 01 30 8 2 X2 0 3 0043

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT SD 31 S35 152 028 022 6 10

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S C
		STD	0000	0270	3346	2671	0013462	0000	14592								
	204	OBS	0000	0270	33460	2671			14592								
		STD	0010	0267	3346	2671	0013450	0013	14593								
		OBS	0010	0267	33459	2671			14593								
	001	STD	0020	0253	3345	2671	0013449	0027	14588								
		OBS	0020	0253	33445	2671			14588								
		OBS	0027	0262	33482	2673			14593								
		STD	0030	0244	3347	2673	0013231	0040	14586								
		OBS	0030	0244	33465	2673			14586								
		OBS	0040	0217	33439	2673			14575								
		STD	0050	0520	3400	2688	0011823	0065	14713								
		OBS	0050	0520	34003	2688			14713								
		OBS	0060	0550	34100	2693			14729								
		OBS	0065	0541	34090	2693			14726								
		OBS	0070	0550	34140	2696			14731								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OUT- POST NUMBER	MARS- DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	OR			HGT	PER	SEA	TYPE		AMT					
318008	EV	44149N	049000W	149	49	04	22	216	1967	11P	9892	0667	06	32	6	2			X2	0	3		0044				
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB																		
		OT		50		31		S25		169		022		017		31											
MESSENGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY - σ _t		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	-0024	3301	2653		0015094		0000		14454															
216		OBS	0000	-0024	33009	2653						14454															
		STD	0010	-0025	3301	2653		0015079		0015		14455															
		OBS	0010	-0025	33010	2653						14455															
		STD	0020	-0025	3302	2654		0015014		0030		14457															
004		OBS	0020	-0025	33018	2654						14457															
		OBS	0025	-0025	33023	2655						14458															
		STD	0030	-0025	3310	2661		0014384		0045		14460															
		OBS	0030	-0025	33100	2661						14460															
		OBS	0041	-0040	33270	2675						14457															
		OBS	0045	-0019	33385	2683						14469															
		STD	0050	-0041	3343	2688		0011788		0071		14460															
		OBS	0050	-0041	33430	2688						14460															
		STD	0075	0011	3361	2700		0010653		0099		14491															
		OBS	0075	0011	33609	2700						14491															
		OBS	0085	0072	33770	2710						14523															
		STD	0100	0573	3451	2722		0008705		0123		14750															
		OBS	0100	0573	34510	2722						14750															
		OBS	0110	0657	34650	2722						14787															
		STD	0125	0595	3456	2723		0008655		0145		14763															
		OBS	0125	0595	34557	2723						14763															
		STD	0150	0806	3499	2728		0008319		0166		14856															
		OBS	0150	0806	34990	2728						14856															
		OBS	0190	0735	34924	2733						14834															
		STD	0200	0655	3484	2738		0007396		0205		14804															
		OBS	0200	0655	34843	2738						14804															
		OBS	0205	0551	34731	2742						14761															
		OBS	0230	0538	34778	2748						14761															
		STD	0250	0450	3466	2749		0006332		0240		14726															
		OBS	0250	0450	34662	2749						14726															
		OBS	0261	0375	34636	2754						14696															
		STD	0300	0471	3482	2759		0005441		0269		14745															
		OBS	0300	0471	34820	2759						14745															
		OBS	0302	0483	34837	2759						14751															
		OBS	0323	0468	34816	2759						14748															
		OBS	0340	0487	34875	2761						14759															
		OBS	0350	0400	34775	2763						14723															
		OBS	0392	0399	34810	2766						14730															
		STD	0400	0410	3482	2766		0004836		0321		14736															
		OBS	0400	0410	34824	2766						14736															
		OBS	0415	0428	34848	2766						14747															
		STD	0500	0440	3492	2770		0004565		0368		14767															
		OBS	0500	0440	34919	2770						14767															
		STD	0600	0437	3494	2772		0004501		0413		14782															
		OBS	0600	0437	34937	2772						14782															
		OBS	0630	0427	34935	2773						14783															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR, 1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318008	EV		44125N	048460W	1967	48 04 22 231	11P	9893	1920	15	32	6	2		X2	0	3	0045
		WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
		DT	SD	31	S20	186	011	006	7	30								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CCT	
231		STD	0000	0018	3315	2663	0014188	0000	14476									
		OBS	0000	0018	33152	2663			14476									
005		STD	0010	0017	3316	2663	0014135	0014	14477									
		OBS	0010	0017	33158	2663			14477									
		STD	0020	0017	3316	2664	0014110	0028	14478									
		OBS	0020	0017	33161	2664			14478									
		STD	0030	0015	3317	2665	0014022	0042	14479									
		OBS	0030	0015	33171	2665			14479									
		OBS	0045	0040	33298	2674			14495									
		STD	0050	0009	3345	2687	0011890	0068	14484									
		OBS	0050	0009	33446	2687			14484									
		OBS	0060	0018	33518	2694			14474									
		OBS	0070	0057	33665	2702			14512									
		STD	0075	0053	3370	2705	0010181	0096	14511									
		OBS	0075	0053	33700	2705			14511									
		OBS	0080	0046	33740	2709			14510									
		STD	0100	0380	3437	2733	0007649	0118	14668									
		OBS	0100	0380	34370	2733			14668									
		STD	0125	0700	3487	2733	0007714	0137	14809									
		OBS	0125	0700	34865	2733			14809									
		OBS	0130	0730	34948	2736			14823									
		STD	0150	0699	3495	2740	0007146	0156	14814									
	OBS	0150	0699	34945	2740			14814										
	STD	0200	0598	3487	2747	0006463	0190	14781										
	OBS	0200	0598	34870	2747			14781										
	OBS	0215	0515	34787	2751			14749										
	STD	0250	0570	3494	2756	0005661	0220	14779										
	OBS	0250	0570	34940	2756			14779										
	STD	0300	0496	3490	2762	0005133	0247	14757										
	OBS	0300	0496	34900	2762			14757										
	STD	0400	0485	3497	2769	0004577	0296	14769										
	OBS	0400	0485	34973	2769			14769										
	STD	0500	0440	3496	2773	0004260	0340	14767										
	OBS	0500	0440	34960	2773			14767										
	STD	0600	0408	3494	2775	0004159	0382	14770										
	OBS	0600	0408	34938	2775			14770										
	STD	0700	0391	3493	2776	0004120	0423	14779										
	OBS	0700	0391	34930	2776			14779										
	STD	0800	0387	3494	2777	0004099	0465	14795										
	OBS	0800	0387	34939	2777			14795										
	STD	0900	0383	3494	2778	0004113	0506	14810										
	OBS	0900	0383	34943	2778			14810										
	STD	1000	0379	3494	2778	0004155	0547	14825										
	OBS	1000	0379	34943	2778			14825										
	STD	1100	0378	3494	2779	0004223	0589	14841										
	OBS	1100	0378	34944	2779			14841										
	STD	1200	0374	3495	2779	0004247	0631	14856										
	OBS	1200	0374	34946	2779			14856										
	STD	1300	0378	3496	2780	0004265	0674	14875										
	OBS	1300	0378	34962	2780			14875										
	STD	1400	0370	3496	2781	0004279	0716	14888										
	OBS	1400	0370	34958	2781			14888										
	STD	1500	0369	3496	2781	0004335	0760	14904										
	OBS	1500	0369	34960	2781			14904										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
31	8008	EV	44100N	048324W	149	48	04	23	009	1967	11P	9894	3109	15	31	6	2		X2	0	3		0046
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																	
OT	SD	31	S10	207	011	000	6	28															
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₂ -Si $\mu\text{g} - \text{at/l}$	pH	S						

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	SI O ₄ -Si $\mu g - dl/l$	pH	S C C
		STD	0000	0477	3379	2676	0012922	0000	14684								
	009	OBS	0000	0477	33787	2676			14684								
		STD	0010	0477	3379	2676	0012910	0013	14686								
		OBS	0010	0477	33790	2676			14686								
		STD	0020	0477	3379	2677	0012905	0026	14688								
	004	OBS	0020	0477	33792	2677			14688								
		OBS	0025	0477	33795	2677			14689								
		STD	0030	0477	3380	2677	0012877	0039	14690								
		OBS	0030	0477	33797	2677			14690								
		STD	0050	0410	3417	2714	0009412	0061	14670								
		OBS	0050	0410	34169	2714			14670								
		OBS	0061	0672	34737	2727			14786								
		STD	0075	0687	3483	2732	0007758	0082	14795								
		OBS	0075	0687	34825	2732			14795								
		STD	0100	0699	3490	2736	0007400	0101	14805								
		OBS	0100	0699	34900	2736			14805								
		STD	0125	0713	3498	2741	0007020	0119	14816								
		OBS	0125	0713	34982	2741			14816								
		STD	0150	0661	3497	2747	0006469	0136	14799								
		OBS	0150	0661	34968	2747			14799								
		STD	0200	0582	3494	2755	0005727	0167	14776								
		OBS	0200	0582	34942	2755			14776								
		STD	0250	0493	3486	2759	0005360	0195	14747								
		OBS	0250	0493	34857	2759			14747								
		OBS	0270	0465	34840	2761			14738								
		STD	0300	0474	3489	2764	0004976	0220	14747								
		OBS	0300	0474	34887	2764			14747								
		OBS	0350	0505	34950	2765			14769								
		STD	0400	0502	3499	2769	0004622	0268	14777								
		OBS	0400	0502	34994	2769			14777								
		STD	0500	0464	3498	2772	0004391	0313	14777								
		OBS	0500	0464	34980	2772			14777								
		STD	0600	0452	3500	2775	0004202	0356	14789								
		OBS	0600	0452	35001	2775			14789								
		STD	0700	0433	3500	2777	0004097	0398	14798								
		OBS	0700	0433	34999	2777			14798								
		STD	0800	0418	3500	2778	0004048	0439	14808								
		OBS	0800	0418	34995	2778			14808								
		STD	0900	0395	3498	2779	0004011	0479	14815								
		OBS	0900	0395	34976	2779			14815								
		STD	1000	0380	3496	2780	0004041	0519	14825								
		OBS	1000	0380	34960	2780			14825								
		STD	1100	0375	3496	2780	0004069	0560	14840								
		OBS	1100	0375	34960	2780			14840								
		STD	1200	0375	3496	2780	0004127	0601	14857								
		OBS	1200	0375	34964	2780			14857								
		STD	1300	0368	3496	2781	0004147	0642	14870								
		OBS	1300	0368	34961	2781			14870								
		STD	1400	0365	3497	2782	0004157	0684	14886								
		OBS	1400	0365	34966	2782			14886								
		STD	1500	0361	3497	2782	0004159	0725	14901								
		OBS	1500	0361	34970	2782			14901								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA	TYPE	AMT	
318008	EV		44076N	048190W		149	48	04	23	025	1967	11P 9895	3383	15	31	6	2		X2	0 3	0047
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB															
01	50	31	510	217	017	006	6	38													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	ST C				
		STD	0000	0250	3351	2676	0012963	0000	14584												
		OBS	0000	0250	33505	2676			14584												
		STD	0010	0255	3351	2676	0012969	0013	14588												
		OBS	0010	0255	33510	2676			14588												
		STD	0020	0255	3351	2676	0012943	0026	14590												
		OBS	0020	0255	33514	2676			14590												
		STD	0030	0256	3352	2676	0012940	0039	14592												
		OBS	0030	0256	33516	2676			14592												
		STD	0050	0257	3352	2676	0012934	0065	14596												
		OBS	0050	0257	33519	2676			14596												
		OBS	0063	0287	33570	2678			14611												
		STD	0075	0260	3370	2690	0011640	0095	14603												
		OBS	0075	0260	33695	2690			14603												
		OBS	0085	0188	33845	2708			14576												
		STD	0100	0500	3430	2714	0009431	0122	14717												
		OBS	0100	0500	34300	2714			14717												
		OBS	0120	0650	34701	2727			14787												
		STD	0125	0630	3468	2728	0008160	0144	14779												
		OBS	0125	0630	34682	2728			14779												
		OBS	0135	0590	34620	2729			14764												
		OBS	0141	0732	34960	2736			14826												
		STD	0150	0670	3485	2736	0007465	0163	14801												
		OBS	0150	0670	34850	2736			14801												
		OBS	0155	0608	34752	2737			14776												
		OBS	0161	0650	34825	2737			14795												
		OBS	0175	0560	34680	2737			14759												
		OBS	0195	0591	34750	2739			14776												
		STD	0200	0596	3480	2742	0006959	0199	14779												
		OBS	0200	0596	34800	2742			14779												
		OBS	0217	0599	34946	2753			14785												
		OBS	0240	0578	34950	2756			14781												
		STD	0250	0597	3499	2757	0005627	0231	14791												
		OBS	0270	0618	35050	2759			14803												
		STD	0300	0609	3507	2762	0005264	0258	14805												
		OBS	0300	0609	35069	2762			14805												
		OBS	0370	0488	34890	2762			14765												
		OBS	0382	0494	34965	2768			14770												
		STD	0400	0485	3497	2769	0004636	0308	14769												
		OBS	0400	0485	34965	2769			14769												
		STD	0500	0433	3493	2771	0004433	0353	14764												
		OBS	0500	0433	34926	2771			14764												
		STD	0600	0420	3494	2774	0004281	0396	14775												
		OBS	0600	0420	34940	2774			14775												
		STD	0700	0400	3492	2775	0004267	0439	14783												
		OBS	0700	0400	34924	2775			14783												
		STD	0800	0388	3492	2776	0004229	0482	14795												
		OBS	0800	0388	34923	2776			14795												
		OBS	0865	0402	34960	2777			14812												
		STD	0900	0383	3493	2777	0004180	0524	14809												
		OBS	0900	0383	34934	2777			14809												
		STD	1000	0385	3495	2779	0004160	0565	14827												
		OBS	1000	0385	34952	2779			14827												
		STD	1100	0390	3497	2779	0004193	0607	14846												
		OBS	1100	0390	34968	2779			14846												
		STD	1200	0383	3497	2780	0004218	0649	14860												
		OBS	1200	0383	34965	2780			14860												
		STD	1300	0379	3497	2781	0004219	0691	14875												
		OBS	1300	0379	34970	2781			14875												
		STD	1400	0374	3497	2781	0004249	0734	14890												
		OBS	1400	0374	34969	2781			14890												
		STD	1500	0363	3496	2781	0004258	0776	14902												
		OBS	1500	0363	34960	2781			14902												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME 1/10	MARSden SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT									
318008		EV	44050N	048053W		149	48	04	23	041	1967	IIP	9896	3658	15	29	3	2		X2	013		0048							
		WATER		WIND		BARO-		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB																					
		DT	SD	30	S10	220		022	006	7	47																			
MESSENGER TIME HP 1/10	CST OF NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P $\mu\text{g} \cdot \text{at}/\text{l}$	TOTAL-P $\mu\text{g} \cdot \text{at}/\text{l}$	NO ₂ -N $\mu\text{g} \cdot \text{at}/\text{l}$	NO ₃ -N $\mu\text{g} \cdot \text{at}/\text{l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at}/\text{l}$	pH	S C													
		STD	0000	0590	3403	2682	0012404	0000	14734																					
041		OBS	0000	0590	34025	2682			14734																					
		STD	0010	0594	3403	2682	0012435	0012	14737																					
		OBS	0010	0594	34029	2682			14737																					
		STD	0020	0595	3403	2681	0012452	0025	14739																					
		STD	0030	0597	3404	2682	0012452	0037	14742																					
002		OBS	0030	0597	34035	2682			14742																					
		STD	0050	0605	3405	2682	0012462	0062	14748																					
		OBS	0050	0605	34050	2682			14748																					
		OBS	0065	0500	33917	2684			14706																					
		STD	0075	0865	3464	2691	0011647	0092	14862																					
		OBS	0091	1125	35228	2693			14966																					
		STD	0100	1096	3524	2699	0011004	0121	14958																					
		OBS	0100	1096	35242	2699			14958																					
		OBS	0105	1109	35340	2704			14964																					
		OBS	0119	1060	35240	2705			14948																					
		STD	0125	1015	3518	2709	0010123	0147	14932																					
		OBS	0125	1015	35182	2709			14932																					
		OBS	0131	0950	35060	2710			14908																					
		OBS	0148	0930	35020	2710			14903																					
		STD	0150	0940	3507	2713	0009794	0172	14907																					
		OBS	0150	0940	35068	2713			14907																					
		OBS	0154	0948	35112	2715			14912																					
		OBS	0160	0943	35112	2715			14911																					
		OBS	0175	0910	35110	2721			14901																					
		OBS	0190	0857	35019	2722			14882																					
		STD	0200	0782	3489	2723	0008823	0219	14854																					
		OBS	0200	0782	34887	2723			14854																					
		OBS	0210	0721	34775	2723			14830																					
		OBS	0225	0795	35030	2733			14865																					
		STD	0250	0712	3489	2733	0007910	0260	14835																					
		OBS	0250	0712	34888	2733			14835																					
		OBS	0254	0697	34928	2739			14830																					
		OBS	0265	0717	35012	2742			14841																					
		OBS	0280	0703	35002	2744			14838																					
		STD	0300	0592	3487	2748	0006541	0296	14795																					
		OBS	0300	0592	34868	2748			14795																					
		OBS	0309	0573	34870	2751			14789																					
		OBS	0315	0588	34921	2753			14797																					
		OBS	0334	0542	34889	2756			14781																					
		OBS	0368	0552	34911	2756			14791																					
		OBS	0380	0579	35028	2762			14805																					
		OBS	0392	0575	35025	2763			14806																					
		STD	0400	0522	3495	2763	0005191	0355	14784																					
		OBS	0400	0522	34950	2763			14784																					
		OBS	0419	0503	34955	2766			14780																					
		OBS	0420	0521	34985	2766			14788																					
		OBS	0434	0522	34988	2766			14790																					
		OBS	0450	0458	34900	2767			14766																					
		STD	0500	0459	3493	2769	0004689	0405	14775																					
		OBS	0500	0459	34932	2769			14775																					
		STD	0600	0435	3493	2772	0004514	0451	14781																					
		OBS	0600	0435	34932	2772			14781																					
		STD	0700	0411	3493	2774	0004365	0495	14788																					
		OBS	0700	0411	34928	2774			14788																					
		STD	0800	0395	3493	2776	0004259	0538	14798																					
		OBS	0800	0395	34930	2776			14798																					
		STD	0900	0383	3493	2777	0004246	0581	14809																					
		OBS	0900	0383	34925	2777			14809																					
		STD	1000	0379	3493	2778	0004229	0623	14824																					
		OBS	1000	0379	34933	2778			14824																					
		STD	1100	0378	3493	2778	0004312	0666	14841																					
		OBS	1100	0378	34932	2778			14841																					
		STD	1200	0380	3496	2779	0004255	0709	14859																					
		OBS	1200	0380	34955	2779			14859																					
		STD	1300	0373	3495	2780	0004276	0751	14872																					
		OBS	1300	0373	34952	2780			14872																					
		STD	1400	0366	3495	2780	0004287	0794	14886																					
		OBS	1400	0366	34950	2780			14886																					
		STD	1500	0364	3496	2781	0004293	0837	14902																					
		OBS	1500	0364	34957	2781			14902																					

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH 10'	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BDTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NGDC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
31	8008	EV	44028N	047520W		149	47	04	23	057	1967	IIP	9897	3840	15	29	5	2	X1	0	3	0049
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB													
		DT	SD	30	505	213	028	011	7	35												
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-K107	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₃ -N μg - dl/l	NO ₂ -N μg - dl/l	SIO ₄ -Si μg - dl/l	pH	S CODE					
		STD	0000	1238	3524	2672	0013330	0000	14991													
057		OBS	0000	1238	35239	2672			14991													
		STD	0010	1241	3525	2672	0013368	0013	14993													
		OBS	0010	1241	35245	2672			14993													
		STD	0020	1242	3525	2672	0013377	0027	14996													
003		OBS	0020	1242	35250	2672			14996													
		OBS	0025	1243	35270	2673			14997													
		STD	0030	1244	3528	2674	0013257	0040	14998													
		OBS	0030	1244	35275	2674			14998													
		STD	0050	1237	3528	2675	0013178	0066	14999													
		OBS	0050	1237	35275	2675			14999													
		OBS	0069	1234	35270	2675			15001													
		STD	0075	1200	3519	2675	0013220	0099	14989													
		OBS	0075	1200	35185	2675			14989													
		OBS	0086	1172	35220	2683			14982													
		STD	0100	1284	3550	2683	0012521	0132	15026													
		OBS	0100	1284	35504	2683			15026													
		OBS	0110	1293	35530	2684			15031													
		OBS	0117	1259	35500	2688			15020													
		STD	0125	1257	3553	2691	0011875	0162	15021													
		OBS	0125	1257	35531	2691			15021													
		STD	0150	1161	3536	2696	0011428	0191	14990													
		OBS	0150	1161	35358	2696			14990													
		OBS	0180	1053	35282	2710			14956													
		STD	0200	1050	3528	2710	0010171	0245	14958													
		OBS	0200	1050	35279	2710			14958													
		STD	0250	0892	3507	2720	0009245	0294	14906													
		OBS	0250	0892	35067	2720			14906													
		STD	0300	0778	3502	2734	0007943	0337	14870													
		OBS	0300	0778	35022	2734			14870													
		OBS	0390	0556	34870	2753			14795													
		STD	0400	0573	3492	2754	0006049	0407	14805													
		OBS	0400	0573	34920	2754			14805													
		OBS	0464	0557	34990	2762			14810													
		OBS	0489	0570	35009	2762			14819													
		STD	0500	0530	3496	2763	0005340	0464	14804													
		OBS	0500	0530	34960	2763			14804													
		OBS	0525	0473	34920	2766			14784													
		OBS	0550	0501	34970	2767			14801													
		STD	0600	0489	3498	2770	0004789	0514	14804													
		OBS	0600	0489	34982	2770			14804													
		STD	0700	0458	3498	2773	0004523	0561	14808													
		OBS	0700	0458	34982	2773			14808													
		STD	0800	0437	3498	2775	0004403	0606	14816													
		OBS	0800	0437	34978	2775			14816													
		STD	0900	0427	3498	2776	0004353	0649	14828													
		OBS	0900	0427	34982	2776			14828													
		STD	1000	0415	3498	2778	0004319	0693	14840													
		OBS	1000	0415	34980	2778			14840													
		STD	1100	0401	3498	2779	0004255	0736	14851													
		OBS	1100	0401	34978	2779			14851													
		STD	1200	0388	3497	2780	0004251	0778	14862													
		OBS	1200	0388	34969	2780			14862													
		STD	1300	0379	3496	2780	0004285	0821	14875													
		OBS	1300	0379	34961	2780			14875													
		STD	1400	0372	3496	2781	0004282	0864	14889													
		OBS	1400	0372	34961	2781			14889													
		STD	1500	0369	3496	2781	0004321	0907	14904													
		OBS	1500	0369	34962	2781			14904													

REFERENCE		SHIP CODE	LATITUDE *	LONGITUDE *	MO 10°	DAY 1°	MO 04	DAY 23	HR. 10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.										CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8008	EV	43588N	047320W	149	37	04	23	075	1967	IIP	9898	4023	15	31	4	2		X2	013		0050
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
DT	SD	30	505	227	044	022	7	33														

MESSING TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₃ -N μg - ol/l	NO ₃ -N μg - ol/l	SiO ₄ -Si μg - ol/l	pH	Σ C
		STD	0000	1248	3526	2671	0013399	0000	14994								
075		OBS	0000	1248	35255	2671			14994								
		STD	0010	1248	3526	2672	0013396	0013	14996								
		OBS	0010	1248	35259	2672			14996								
		STD	0020	1248	3526	2672	0013415	0027	14998								
003		OBS	0020	1248	35260	2672			14998								
		STD	0030	1248	3526	2672	0013434	0040	14999								
		OBS	0030	1248	35261	2672			14999								
		STD	0050	1248	3526	2672	0013465	0067	15003								
		OBS	0050	1248	35264	2672			15003								
		STD	0075	1248	3527	2672	0013523	0101	15007								
		OBS	0075	1248	35265	2672			15007								
		STD	0100	1247	3528	2673	0013467	0135	15011								
		OBS	0100	1247	35279	2673			15011								
		OBS	0109	1237	35290	2676			15009								
		OBS	0117	1254	35333	2676			15017								
		STD	0125	1200	3525	2680	0012848	0167	14998								
		OBS	0125	1200	35253	2680			14998								
		OBS	0139	1207	35349	2686			15004								
		STD	0150	1275	3552	2686	0012359	0199	15031								
		OBS	0150	1275	35521	2686			15031								
		OBS	0170	1306	35621	2688			15046								
		STD	0200	1234	3551	2694	0011791	0259	15026								
		OBS	0200	1234	35510	2694			15026								
		STD	0250	1032	3518	2705	0010741	0316	14959								
		OBS	0250	1032	35175	2705			14959								
		STD	0300	0880	3504	2720	0009333	0366	14909								
		OBS	0300	0880	35043	2720			14909								
		OBS	0366	0770	34978	2732			14878								
		STD	0400	0636	3482	2738	0007612	0451	14829								
		OBS	0400	0636	34820	2738			14829								
		OBS	0440	0503	34735	2748			14780								
		OBS	0450	0596	34938	2753			14822								
		STD	0500	0564	3496	2759	0005777	0518	14818								
		OBS	0500	0564	34959	2759			14818								
		OBS	0540	0583	35012	2760			14833								
		OBS	0585	0525	34990	2766			14817								
		STD	0600	0537	3503	2768	0005012	0572	14825								
		OBS	0600	0537	35033	2768			14825								
		STD	0700	0519	3507	2773	0004654	0620	14834								
		OBS	0700	0519	35067	2773			14834								
		STD	0800	0462	3502	2775	0004414	0665	14827								
		OBS	0800	0462	35018	2775			14827								
		STD	0900	0421	3497	2776	0004390	0709	14826								
		OBS	0900	0421	34967	2776			14826								
		STD	1000	0416	3499	2779	0004235	0752	14841								
		OBS	1000	0416	34993	2779			14841								
		STD	1100	0411	3498	2778	0004343	0795	14855								
		OBS	1100	0411	34983	2778			14855								
		STD	1200	0393	3497	2779	0004306	0838	14864								
		OBS	1200	0393	34970	2779			14864								
		STD	1300	0381	3496	2780	0004296	0881	14876								
		OBS	1300	0381	34963	2780			14876								
		STD	1400	0372	3496	2780	0004304	0924	14889								
		OBS	1400	0372	34958	2780			14889								
		STD	1500	0368	3496	2781	0004323	0968	14904								
		OBS	1500	0368	34960	2781			14904								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
318008	EV		43565N	047190W	149	37	04	23	097	1967	11P	9899	4206	15	33	4	2		X2	0	3		0051
		WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. INT	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																		
		DT	SD	30	S05	220	050	033	7	40													
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S CUT						
		STD	0000	1272	3537	2675	0013027	0000	15004														
097		OBS	0000	1272	35367	2675			15004														
		STD	0010	1272	3537	2675	0013032	0013	15006														
		OBS	0010	1272	35370	2675			15006														
		STD	0020	1272	3537	2675	0013059	0026	15007														
003		OBS	0020	1272	35370	2675			15007														
		OBS	0025	1272	35370	2675			15008														
		STD	0030	1273	3537	2675	0013090	0039	15009														
		OBS	0030	1273	35372	2675			15009														
		STD	0050	1273	3537	2675	0013137	0065	15012														
		OBS	0050	1273	35373	2675			15012														
		STD	0075	1274	3538	2675	0013201	0098	15017														
		OBS	0075	1274	35376	2675			15017														
		STD	0100	1276	3539	2676	0013240	0131	15022														
		OBS	0100	1276	35385	2676			15022														
		OBS	0113	1289	35425	2676			15029														
		STD	0125	1218	3531	2681	0012763	0164	15005														
		OBS	0125	1218	35310	2681			15005														
		OBS	0140	1294	35521	2683			15036														
		STD	0150	1290	3552	2684	0012640	0196	15036														
		OBS	0150	1290	35522	2684			15036														
		STD	0200	1276	3553	2687	0012446	0258	15040														
		OBS	0200	1276	35530	2687			15040														
		STD	0250	1116	3532	2701	0011157	0317	14990														
		OBS	0250	1116	35318	2701			14990														
		OBS	0264	1096	35354	2708			14986														
		OBS	0272	1096	35354	2708			14987														
		STD	0300	1014	3519	2710	0010436	0371	14961														
		OBS	0300	1014	35190	2710			14961														
		OBS	0330	0956	35160	2717			14944														
		OBS	0339	0967	35218	2720			14950														
		STD	0400	0838	3502	2725	0009048	0469	14910														
		OBS	0400	0838	35019	2725			14910														
		OBS	0420	0726	34970	2738			14869														
		OBS	0425	0744	35005	2738			14878														
		STD	0500	0630	3500	2753	0006358	0546	14845														
		OBS	0500	0630	34998	2753			14845														
		OBS	0520	0610	35018	2757			14841														
		OBS	0523	0627	35050	2758			14848														
		STD	0600	0566	3502	2763	0005483	0605	14836														
		OBS	0600	0566	35020	2763			14836														
		OBS	0660	0550	35029	2766			14840														
		OBS	0670	0530	35028	2768			14833														
		STD	0700	0530	3505	2770	0004936	0657	14839														
		OBS	0700	0530	35048	2770			14839														
		OBS	0762	0501	35047	2773			14837														
		OBS	0768	0508	35057	2773			14841														
		STD	0800	0503	3506	2774	0004606	0705	14844														
		OBS	0800	0503	35062	2774			14844														
		STD	0900	0458	3503	2777	0004390	0750	14842														
		OBS	0900	0458	35029	2777			14842														
		OBS	0922	0463	35040	2777			14848														
		STD	1000	0450	3503	2778	0004373	0794	14855														
		OBS	1000	0450	35032	2778			14855														
		STD	1100	0429	3502	2779	0004312	0837	14863														
		OBS	1100	0429	35018	2779			14863														
		STD	1200	0412	3501	2780	0004252	0880	14873														
		OBS	1200	0412	35010	2780			14873														
		STD	1300	0400	3500	2781	0004265	0922	14884														
		OBS	1300	0400	35000	2781			14884														
		STD	1400	0395	3500	2781	0004292	0965	14899														
		OBS	1400	0395	35000	2781			14899														
		STD	1500	0390	3501	2783	0004250	1008	14914														
		OBS	1500	0390	35009	2783			14914														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318008	EV		4419 N	04920 W		149	49	04	24	174	1967	IIP	9900	0048	00	26	6	2		X1	0 3	0052
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
						DT	SD	24	S17	091	056	050	7	05								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C
		STD	0000	0226	3288	2628	0017493	0000	14565								
	174	OBS	0000	0226	32883	2628			14565								
		STD	0010	0221	3288	2628	0017459	0017	14565								
		OBS	0010	0221	32883	2628			14565								
		STD	0020	0211	3299	2638	0016600	0035	14563								
	001	OBS	0025	0206	33039	2642			14563								
		STD	0030	0342	3365	2679	0012658	0049	14631								
		OBS	0030	0342	33650	2679			14631								
		OBS	0040	0348	33670	2680			14635								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318008	EV		4416 N	04906 W		149	49	04	24	184	1967	IIP	9901	0348	03	22	6	2		X0	0 3	0053
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
						DT	SD	22	S18	108	067	056	7	23								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C
		STD	0000	-0013	3299	2652	0015263	0000	14459								
	184	OBS	0000	-0013	32993	2652			14459								
		STD	0010	-0018	3299	2652	0015261	0015	14458								
		OBS	0010	-0018	32990	2652			14458								
		STD	0020	-0021	3299	2652	0015245	0031	14459								
	001	OBS	0020	-0021	32990	2652			14459								
		OBS	0025	-0026	32999	2653			14457								
		STD	0030	-0035	3301	2654	0015015	0046	14454								
		OBS	0030	-0035	33012	2654			14454								
		STD	0050	-0050	3307	2659	0014495	0075	14451								
		OBS	0050	-0050	33071	2659			14451								
		OBS	0065	-0089	33260	2676			14438								
		STD	0075	-0078	3332	2681	0012473	0109	14446								
		OBS	0075	-0078	33320	2681			14446								
		STD	0100	-0056	3340	2686	0011936	0139	14461								
		OBS	0100	-0056	33400	2686			14461								
		STD	0125	-0027	3354	2696	0010970	0168	14481								
		OBS	0125	-0027	33542	2696			14481								
		STD	0150	0021	3366	2704	0010296	0195	14509								
		OBS	0150	0021	33661	2704			14509								
		OBS	0180	0169	34053	2726			14586								
		OBS	0196	0650	34721	2729			14799								
		STD	0200	0651	3474	2730	0008102	0241	14801								
		OBS	0200	0651	34741	2730			14801								
		OBS	0210	0652	34760	2732			14803								
		OBS	0232	0430	34585	2745			14714								
		OBS	0245	0429	34597	2746			14716								
		STD	0250	0405	3462	2750	0006163	0276	14707								
		OBS	0255	0393	34640	2753			14703								
		OBS	0268	0422	34683	2753			14718								
		OBS	0283	0419	34620	2749			14718								
		OBS	0290	0370	34645	2756			14699								
		STD	0300	0369	3466	2757	0005544	0306	14700								
		OBS	0300	0369	34659	2757			14700								
		OBS	0325	0355	34666	2759			14699								

REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318008	EV	4414 N	04854 W		149	48	04	24	197	1967	11P	9902	1829	15	22	5	2		X0	0 3		0054
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
DT		SD	22	S16	119	050	039	7	34													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
		STD	0000	0069	3324	2667	0013806	0000	14500													
197		OBS	0000	0069	33236	2667			14500													
		STD	0010	0066	3324	2667	0013789	0014	14500													
		OBS	0010	0066	33236	2667			14500													
		STD	0020	0046	3328	2672	0013347	0027	14493													
004		OBS	0020	0046	33280	2672			14493													
		OBS	0025	0046	33332	2676			14495													
		STD	0030	0046	3345	2685	0012042	0040	14497													
		OBS	0030	0046	33451	2685			14497													
		STD	0050	0084	3360	2695	0011119	0063	14520													
		OBS	0050	0084	33600	2695			14520													
		STD	0075	0074	3380	2712	0009540	0089	14522													
		OBS	0075	0074	33800	2712			14522													
		STD	0100	0093	3390	2719	0008896	0112	14536													
		OBS	0100	0093	33900	2719			14536													
		STD	0125	0150	3406	2728	0008048	0133	14568													
		OBS	0125	0150	34062	2728			14568													
		STD	0150	0190	3418	2734	0007456	0153	14592													
		OBS	0150	0190	34180	2734			14592													
		OBS	0175	0335	34475	2746			14663													
		STD	0200	0327	3450	2748	0006243	0187	14664													
		OBS	0200	0327	34500	2748			14664													
		OBS	0230	0318	34570	2755			14666													
		STD	0250	0340	3464	2758	0005378	0216	14679													
		OBS	0250	0340	34637	2758			14679													
		STD	0300	0393	3474	2761	0005186	0242	14712													
		OBS	0300	0393	34740	2761			14712													
		OBS	0305	0380	34740	2762			14707													
		OBS	0320	0416	34795	2763			14725													
		OBS	0340	0410	34840	2767			14727													
		OBS	0372	0482	34945	2767			14763													
		STD	0400	0475	3495	2768	0004668	0292	14765													
		OBS	0400	0475	34945	2768			14765													
		STD	0500	0442	3494	2772	0004417	0337	14768													
		OBS	0500	0442	34942	2772			14768													
		STD	0600	0422	3494	2774	0004297	0381	14776													
		OBS	0600	0422	34941	2774			14776													
		STD	0700	0406	3494	2775	0004210	0423	14786													
		OBS	0700	0406	34941	2775			14786													
		STD	0800	0391	3494	2777	0004130	0465	14796													
		OBS	0800	0391	34941	2777			14796													
		STD	0900	0388	3494	2777	0004179	0506	14812													
		OBS	0900	0388	34942	2777			14812													
		STD	1000	0386	3496	2779	0004128	0548	14828													
		OBS	1000	0386	34958	2779			14828													
		STD	1100	0379	3496	2780	0004118	0589	14841													
		OBS	1100	0379	34960	2780			14841													
		STD	1200	0374	3496	2780	0004144	0630	14856													
		OBS	1200	0374	34960	2780			14856													
		STD	1300	0372	3496	2781	0004197	0672	14872													
		OBS	1300	0372	34961	2781			14872													
		OBS	1325	0379	34975	2781			14879													
		OBS	1345	0380	34979	2781			14883													
		OBS	1350	0371	34970	2781			14880													
		STD	1400	0370	3497	2781	0004191	0714	14888													
		OBS	1400	0370	34970	2781			14888													
		STD	1500	0368	3497	2782	0004264	0756	14904													
		OBS	1500	0368	34968	2782			14904													

REFERENCE	SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DEPTH METER	MARSEEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY	HR. 10"	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT		
318008	EV	4411 N	04840 W		149	48	04	24	215	1967		11P	9903	3109	15	19	5	2		X2	0	3	0055
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR	TRANS.	DIR.	SPEED OR FORCE	METER (mbars)		DRY BULB	WET BULB	VIS.										
					OT	SD	18	518	112		044	039	6		26								

MESSNGR TIME HR 10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	S.D.D. OXY. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	3 C
	215	STD	0000	0063	3323	2667	0013835	0000	14497								
		OBS	0000	0063	33228	2667			14497								
		STD	0010	0129	3331	2669	0013609	0014	14530								
		OBS	0010	0129	33308	2669			14530								
		STD	0020	0139	3334	2671	0013423	0027	14536								
	004	OBS	0020	0139	33341	2671			14536								
		OBS	0025	0149	33389	2674			14542								
		STD	0030	0260	3356	2679	0012639	0040	14594								
		OBS	0030	0260	33560	2679			14594								
		STD	0050	0358	3405	2710	0009790	0063	14646								
		OBS	0050	0358	34052	2710			14646								
		STD	0075	0390	3442	2735	0007372	0084	14669								
		OBS	0075	0390	34417	2735			14669								
		OBS	0090	0578	34725	2738			14753								
		STD	0100	0460	3463	2745	0006521	0102	14705								
		OBS	0100	0460	34630	2745			14705								
		STD	0125	0567	3483	2748	0006277	0118	14756								
		OBS	0125	0567	34830	2748			14756								
		STD	0150	0610	3490	2748	0006297	0133	14778								
		OBS	0150	0610	34903	2748			14778								
		STD	0200	0445	3473	2754	0005716	0163	14717								
		OBS	0200	0445	34730	2754			14717								
		STD	0250	0388	3473	2761	0005162	0190	14701								
		OBS	0250	0388	34730	2761			14701								
		STD	0300	0484	3490	2764	0004993	0216	14752								
		OBS	0300	0484	34900	2764			14752								
		STD	0400	0487	3498	2769	0004586	0264	14770								
		OBS	0400	0487	34975	2769			14770								
		STD	0500	0455	3498	2773	0004315	0308	14774								
		OBS	0500	0455	34976	2773			14774								
		STD	0600	0440	3498	2775	0004216	0351	14784								
		OBS	0600	0440	34980	2775			14784								
		STD	0700	0430	3499	2777	0004128	0393	14797								
		OBS	0700	0430	34990	2777			14797								
		STD	0800	0422	3500	2779	0004037	0433	14810								
		OBS	0800	0422	35003	2779			14810								
		STD	0900	0408	3499	2779	0004033	0474	14821								
		OBS	0900	0408	34994	2779			14821								
		STD	1000	0397	3499	2780	0004017	0514	14833								
		OBS	1000	0397	34991	2780			14833								
		STD	1100	0385	3498	2781	0004043	0554	14844								
		OBS	1100	0385	34980	2781			14844								
		STD	1200	0374	3498	2782	0004019	0595	14856								
		OBS	1200	0374	34977	2782			14856								
		STD	1300	0368	3498	2782	0004045	0635	14871								
		OBS	1300	0368	34975	2782			14871								
		STD	1400	0362	3498	2783	0004046	0675	14885								
		OBS	1400	0362	34976	2783			14885								
		STD	1500	0360	3498	2783	0004088	0716	14901								
		OBS	1500	0360	34978	2783			14901								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
318008	EV		4409 N	04826 W		149	48	04	24	230	1967	11F	9904		3292	15	22	5	2		X2	0 3		0056
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
		DT	SD	22	518	139	072	067	6	37														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -Si µg - at/l	pH								
		STD	0000	0567	3388	2673	0013205	0000	14723															
230		OBS	0000	0567	33882	2673			14723															
		STD	0010	0565	3388	2673	0013209	0013	14723															
		OBS	0010	0565	33880	2673			14723															
003		OBS	0018	0565	33880	2673			14725															
		STD	0020	0595	3396	2676	0012976	0026	14738															
		OBS	0020	0595	33960	2676			14738															
		STD	0030	0680	3416	2681	0012553	0039	14777															
		OBS	0030	0680	34160	2681			14777															
		STD	0050	0936	3470	2684	0012281	0064	14885															
		OBS	0050	0936	34695	2684			14885															
		OBS	0058	0826	34680	2700			14845															
		OBS	0068	0905	34840	2700			14878															
		STD	0075	0877	3485	2706	0010273	0092	14869															
		OBS	0075	0877	34850	2706			14869															
		STD	0100	0931	3501	2710	0009975	0117	14895															
		OBS	0100	0931	35010	2710			14895															
		STD	0125	0730	3472	2718	0009200	0141	14819															
		OBS	0125	0730	34720	2718			14819															
		STD	0150	0410	3422	2718	0009097	0164	14687															
		OBS	0150	0410	34223	2718			14687															
		OBS	0160	0281	34350	2741			14635															
		OBS	0190	0654	34885	2741			14802															
		STD	0200	0602	3479	2741	0007109	0205	14782															
		OBS	0200	0602	34790	2741			14782															
		OBS	0210	0453	34700	2751			14721															
		OBS	0218	0616	34975	2753			14793															
		OBS	0225	0575	34920	2754			14777															
		OBS	0230	0600	34960	2754			14788															
		OBS	0240	0567	34913	2755			14776															
		STD	0250	0575	3494	2755	0005760	0237	14781															
		OBS	0250	0575	34935	2755			14781															
		OBS	0295	0549	34990	2763			14779															
		STD	0300	0561	3502	2764	0005021	0464	14785															
		OBS	0300	0561	35020	2764			14785															
		OBS	0325	0548	35010	2765			14783															
		OBS	0340	0560	35030	2765			14791															
		STD	0400	0485	3497	2769	0004636	0312	14769															
		OBS	0400	0485	34965	2769			14769															
		STD	0500	0451	3496	2772	0004387	0357	14772															
		OBS	0500	0451	34960	2772			14772															
		STD	0600	0424	3497	2776	0004104	0400	14777															
		OBS	0600	0424	34970	2776			14777															
		STD	0700	0400	3495	2777	0004074	0441	14784															
		OBS	0700	0400	34950	2777			14784															
		STD	0800	0394	3495	2777	0004099	0482	14798															
		OBS	0800	0394	34950	2777			14798															
		STD	0900	0384	3495	2779	0004058	0522	14810															
		OBS	0900	0384	34952	2779			14810															
		STD	1000	0379	3496	2780	0004051	0563	14825															
		OBS	1000	0379	34957	2780			14825															
		STD	1100	0389	3499	2781	0003996	0603	14846															
		OBS	1100	0389	34993	2781			14846															
		STD	1200	0374	3497	2781	0004055	0643	14856															
		OBS	1200	0374	34972	2781			14856															
		STD	1300	0369	3497	2782	0004079	0684	14871															
		OBS	1300	0369	34972	2782			14871															
		STD	1400	0363	3497	2782	0004088	0725	14885															
		OBS	1400	0363	34972	2782			14885															
		STD	1500	0361	3497	2783	0004145	0766	14901															
		OBS	1500	0361	34972	2783			14901															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT BOAT	MARDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
318	008	EV	4406 N	04813 W		149	48	04	25	005	1967	11P 9905	3329	15	24	5	2		X0	0 3		0057	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB	WET BULB														
		OT	SD	25	S15	152		072	067	7	38												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
		STD	0000	0898	3445	2671		0013394	0000	14859													
005		OBS	0000	0898	34452	2671				14859													
		STD	0010	0898	3445	2671		0013414	0013	14861													
		OBS	0010	0898	34452	2671				14861													
		STD	0020	0901	3446	2671		0013434	0027	14864													
003		OBS	0020	0901	34458	2671				14864													
		STD	0030	0907	3456	2678		0012790	0040	14869													
		OBS	0030	0907	34560	2678				14869													
		OBS	0045	1130	35060	2679				14958													
		STD	0050	1125	3506	2680		0012731	0065	14958													
		OBS	0050	1125	35060	2680				14958													
		OBS	0063	1113	35050	2681				14955													
		STD	0075	1140	3513	2682		0012541	0097	14968													
		OBS	0075	1140	35130	2682				14968													
		STD	0100	0953	3482	2691		0011714	0127	14901													
		OBS	0100	0953	34822	2691				14901													
		OBS	0115	1069	35193	2700				14950													
		STD	0125	1022	3520	2709		0010107	0155	14935													
		OBS	0125	1022	35200	2709				14935													
		OBS	0139	1009	35220	2713				14933													
		OBS	0148	1032	35240	2710				14943													
		STD	0150	1013	3523	2713		0009792	0180	14936													
		OBS	0150	1013	35230	2713				14936													
		STD	0200	0809	3497	2726		0008588	0225	14865													
		OBS	0200	0809	34972	2726				14865													
		OBS	0209	0825	35058	2730				14874													
		OBS	0229	0772	35040	2737				14857													
		OBS	0232	0797	35080	2736				14867													
		STD	0250	0767	3504	2737		0007561	0266	14858													
		OBS	0250	0767	35040	2737				14858													
		STD	0300	0649	3497	2749		0006510	0301	14819													
		OBS	0300	0649	34972	2749				14819													
		OBS	0330	0562	34885	2753				14788													
		OBS	0355	0570	34940	2756				14796													
		OBS	0385	0515	34940	2763				14779													
		STD	0400	0538	3500	2765		0005053	0359	14791													
		OBS	0400	0538	34995	2765				14791													
		OBS	0421	0537	35010	2766				14795													
		OBS	0459	0554	35040	2766				14808													
		OBS	0490	0469	34950	2769				14777													
		STD	0500	0483	3499	2771		0004557	0407	14785													
		OBS	0500	0483	34988	2771				14785													
		STD	0600	0462	3499	2773		0004403	0452	14793													
		OBS	0600	0462	34990	2773				14793													
		STD	0700	0437	3498	2775		0004300	0495	14799													
		OBS	0700	0437	34978	2775				14799													
		STD	0800	0432	3500	2777		0004180	0538	14814													
		OBS	0800	0432	35000	2777				14814													
		STD	0900	0396	3497	2778		0004104	0579	14815													
		OBS	0900	0396	34965	2778				14815													
		STD	1000	0380	3496	2779		0004078	0620	14825													
		OBS	1000	0380	34955	2779				14825													
		STD	1100	0379	3497	2780		0004059	0661	14842													
		OBS	1100	0379	34968	2780				14842													
		STD	1200	0375	3497	2781		0004119	0701	14857													
		OBS	1200	0375	34965	2781				14857													
		STD	1300	0372	3498	2782		0004094	0743	14872													
		OBS	1300	0372	34975	2782				14872													
		STD	1400	0363	3496	2782		0004154	0784	14885													
		OBS	1400	0363	34963	2782				14885													
		STD	1500	0363	3497	2782		0004185	0825	14902													
		OBS	1500	0363	34970	2782				14902													

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME IGMTI				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT				PER
318008	EV	4404 N	04759 W	149 47	04	25	022	1967	IIP	9906		3658	15	22	5	2		X1	03	0058
				WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS IMI	DIR	SPEED OF FORCE		DRY BULB	WET BULB										
				DT	SD	25	S16	159	089	078	6	36								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₃ -N µg - ml/l	NO ₂ -N µg - ml/l	SIO ₄ -Si µg - ml/l	pH			
		STD	0000	1097	3491	2673	0013237		0000	14938										
	022	OBS	0000	1097	34909	2673				14938										
		STD	0010	1097	3491	2673	0013261		0013	14939										
		OBS	0010	1097	34909	2673				14939										
		STD	0020	1098	3491	2673	0013294		0027	14941										
	004	OBS	0020	1098	34910	2673				14941										
		OBS	0025	1098	34910	2673				14942										
		STD	0030	1098	3491	2673	0013318		0040	14943										
		OBS	0030	1098	34910	2673				14943										
		STD	0050	1105	3495	2675	0013192		0066	14949										
		OBS	0050	1105	34950	2675				14949										
		STD	0075	1180	3522	2682	0012598		0099	14983										
		OBS	0075	1180	35220	2682				14983										
		STD	0100	1209	3532	2683	0012495		0130	14998										
		OBS	0100	1209	35315	2683				14998										
		STD	0125	1202	3534	2686	0012283		0161	15000										
		OBS	0125	1202	35335	2686				15000										
		OBS	0138	1160	35330	2694				14988										
		STD	0150	1190	3541	2694	0011612		0191	15001										
		OBS	0150	1190	35405	2694				15001										
		STD	0200	1015	3528	2716	0009605		0244	14946										
		OBS	0200	1015	35275	2716				14946										
		OBS	0232	0851	35050	2725				14887										
		OBS	0242	0900	35150	2726				14909										
		STD	0250	0890	3514	2726	0008712		0290	14906										
		OBS	0250	0890	35135	2726				14906										
		OBS	0270	0794	35050	2734				14872										
		OBS	0278	0808	35079	2734				14879										
		STD	0300	0772	3507	2739	0007500		0330	14869										
		OBS	0300	0772	35070	2739				14869										
		OBS	0339	0721	34970	2739				14854										
		OBS	0358	0582	34880	2750				14801										
		OBS	0370	0607	34925	2751				14813										
		STD	0400	0559	3492	2756	0005909		0397	14799										
		OBS	0400	0559	34915	2756				14799										
		STD	0500	0548	3501	2765	0005195		0453	14812										
		OBS	0500	0548	35010	2765				14812										
		OBS	0510	0535	35000	2765				14808										
		OBS	0525	0563	35045	2766				14823										
		OBS	0560	0465	34935	2769				14787										
		STD	0600	0494	3500	2770	0004754		0502	14807										
		OBS	0600	0494	34995	2770				14807										
		STD	0700	0453	3500	2775	0004329		0548	14806										
		OBS	0700	0453	35000	2775				14806										
		STD	0800	0429	3499	2776	0004254		0591	14813										
		OBS	0800	0429	34985	2776				14813										
		STD	0900	0428	3501	2778	0004195		0633	14829										
		OBS	0900	0428	35005	2778				14829										
		STD	1000	0408	3499	2779	0004159		0675	14837										
		OBS	1000	0408	34990	2779				14837										
		STD	1100	0394	3498	2780	0004139		0716	14848										
		OBS	1100	0394	34982	2780				14848										
		STD	1200	0384	3498	2781	0004120		0758	14861										
		OBS	1200	0384	34980	2781				14861										
		STD	1300	0376	3498	2782	0004123		0799	14874										
		OBS	1300	0376	34978	2782				14874										
		STD	1400	0372	3498	2782	0004158		0840	14889										
		OBS	1400	0372	34978	2782				14889										
		STD	1500	0368	3498	2782	0004176		0882	14904										
		OBS	1500	0368	34980	2782				14904										

REFERENCE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_l/l$	TOTAL-P $\mu g - \sigma_l/l$	NO ₂ -N $\mu g - \sigma_l/l$	NO ₃ -N $\mu g - \sigma_l/l$	SiO ₄ -Si $\mu g - \sigma_l/l$	pH
160		STD	0000	0236	3286	2625	0017756	0000	14569							
		OBS	0000	0236	32858	2625			14569							
		STD	0010	0234	3290	2629	0017433	0018	14570							
001		OBS	0010	0234	32899	2629			14570							
		STD	0020	0228	3320	2653	0015112	0034	14574							
		OBS	0020	0228	33200	2653			14574							
		OBS	0025	0207	33360	2668			14567							
		STD	0030	0216	3339	2669	0013624	0048	14572							
		OBS	0030	0216	33385	2669			14572							
	OBS	0042	0227	33409	2670			14580								

REFERENCE	SHIP ID. NO.	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \sigma_l/l$	TOTAL-P $\mu g - \sigma_l/l$	NO ₂ -N $\mu g - \sigma_l/l$	NO ₃ -N $\mu g - \sigma_l/l$	SiO ₄ -Si $\mu g - \sigma_l/l$	pH	COND.
	171	STD	0000	0010	3305	2655	0014945	0000	14470								
		OBS	0000	0010	33048	2655			14470								
		STD	0010	0009	3306	2656	0014846	0015	14472								
		OBS	0010	0009	33060	2656			14472								
	002	STD	0020	0009	3307	2657	0014751	0030	14474								
		OBS	0020	0009	33072	2657			14474								
		OBS	0025	0010	33100	2659			14475								
		STD	0030	0010	3314	2662	0014234	0044	14477								
		OBS	0030	0010	33140	2662			14477								
		OBS	0040	-0079	33200	2671			14438								
		STD	0050	-0079	3325	2675	0013002	0071	14440								
		OBS	0050	-0079	33252	2675			14440								
		STD	0075	-0062	3334	2682	0014366	0103	14454								
		OBS	0075	-0062	33342	2682			14454								
		STD	0100	-0047	3339	2685	0012035	0134	14465								
		OBS	0100	-0047	33392	2685			14465								
		OBS	0110	-0042	33401	2686			14470								
		OBS	0115	-0005	33450	2688			14488								
		STD	0125	-0027	3346	2690	0011618	0163	14480								
		OBS	0125	-0027	33457	2690			14480								
		OBS	0140	-0024	33493	2692			14484								
		STD	0150	0035	3366	2703	0010387	0191	14515								
		OBS	0150	0035	33659	2703			14515								
		OBS	0175	0203	33980	2717			14599								
		OBS	0197	0598	34579	2724			14777								
		STD	0200	0595	3460	2726	0008474	0238	14776								
		OBS	0200	0595	34595	2726			14776								
		OBS	0225	0520	34580	2734			14750								
		STD	0250	0486	3459	2739	0007288	0277	14740								
		OBS	0250	0486	34588	2739			14740								
		OBS	0265	0483	34582	2739			14741								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CIRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
318008		EV	44135N	04858 W	149	48	04	25	185	1967	11P	9909	1780	15	15	6	4		X6	0 3		0061	
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
DT	SD	16	S35	003	072		072	2				31											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	SC						
		STD	0000	-0011	3303	2654	0014989	0000	14461														
	185	OBS	0000	-0011	33030	2654			14461														
		STD	0010	-0011	3303	2654	0014985	0015	14462														
		OBS	0010	-0011	33030	2654			14462														
		STD	0020	-0025	3304	2656	0014846	0030	14458														
	003	OBS	0020	-0025	33040	2656			14458														
		STD	0030	-0045	3307	2659	0014531	0045	14450														
		OBS	0030	-0045	33070	2659			14450														
		STD	0050	-0052	3310	2662	0014266	0073	14451														
		OBS	0050	-0052	33100	2662			14451														
		STD	0075	-0069	3322	2672	0013272	0108	14449														
		OBS	0075	-0069	33220	2672			14449														
		STD	0100	-0044	3338	2684	0012177	0140	14467														
		OBS	0100	-0044	33375	2684			14467														
		STD	0125	0020	3363	2701	0010530	0168	14504														
		OBS	0125	0020	33630	2701			14504														
		OBS	0142	0176	33830	2708			14579														
		OBS	0148	0148	33980	2722			14570														
		STD	0150	0330	3418	2723	0008640	0192	14652														
		OBS	0150	0330	34180	2723			14652														
		OBS	0160	0765	34876	2725			14840														
		OBS	0180	0711	34782	2725			14822														
		STD	0200	0370	3428	2727	0008311	0234	14679														
		OBS	0200	0370	34280	2727			14679														
		OBS	0230	0496	34645	2742			14742														
		STD	0250	0450	3462	2745	0006684	0272	14725														
		OBS	0250	0450	34615	2745			14725														
		OBS	0290	0415	34690	2755			14718														
		STD	0300	0423	3470	2755	0005805	0303	14724														
		OBS	0300	0423	34700	2755			14724														
		STD	0400	0486	3487	2761	0005393	0359	14768														
		OBS	0400	0486	34865	2761			14768														
		STD	0500	0484	3492	2765	0005089	0411	14785														
		OBS	0500	0484	34918	2765			14785														
		STD	0600	0441	3490	2768	0004830	0461	14783														
		OBS	0600	0441	34899	2768			14783														
		STD	0700	0451	3494	2770	0004757	0509	14805														
		OBS	0700	0451	34939	2770			14805														
		OBS	0760	0437	34930	2771			14809														
		STD	0800	0397	3488	2771	0004675	0556	14798														
		OBS	0800	0397	34877	2771			14798														
		STD	0900	0393	3489	2773	0004631	0603	14813														
		OBS	0900	0393	34889	2773			14813														
		STD	1000	0389	3489	2773	0004666	0649	14828														
		OBS	1000	0389	34890	2773			14828														
		STD	1100	0377	3489	2774	0004646	0696	14840														
		OBS	1100	0377	34885	2774			14840														
		STD	1200	0374	3489	2775	0004674	0742	14855														
		OBS	1200	0374	34888	2775			14855														
		STD	1300	0370	3489	2775	0004694	0789	14870														
		OBS	1300	0370	34890	2775			14870														
		STD	1400	0368	3489	2775	0004752	0836	14886														
		OBS	1400	0368	34890	2775			14886														
		STD	1500	0364	3490	2776	0004725	0884	14901														
		OBS	1500	0364	34898	2776			14901														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318008	EV		4411 N	04845 W	149	48	04 25 201	1967	IIP	9910		2332	15	20	9	2		X6	0 3		0062
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)		DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
		DT	SD	20	S40		010		083	083	0	32									
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH			
		STD	0000	0017	3304	2654		0015054		0000	14473										
	201	OBS	0000	0017	33038	2654					14473										
		STD	0010	0010	3318	2666		0013934		0014	14474										
		OBS	0010	0010	33180	2666					14474										
		STD	0020	-0009	3332	2678		0012776		0028	14469										
	003	OBS	0020	-0009	33320	2678					14469										
		OBS	0025	-0023	33385	2684					14464										
		STD	0030	-0020	3354	2696		0011059		0040	14468										
		OBS	0030	-0020	33538	2696					14468										
		STD	0050	0115	3371	2702		0010471		0061	14535										
		OBS	0050	0115	33710	2702					14535										
		OBS	0060	0170	33795	2705					14563										
		OBS	0065	0107	33900	2718					14537										
		STD	0075	0182	3397	2718		0008997		0086	14573										
		OBS	0075	0182	33965	2718					14573										
		STD	0100	0520	3450	2728		0008160		0107	14728										
		OBS	0100	0520	34500	2728					14728										
		OBS	0110	0635	34690	2728					14779										
		OBS	0120	0520	34600	2736					14733										
		STD	0125	0540	3464	2736		0007390		0127	14742										
		OBS	0125	0540	34638	2736					14742										
		STD	0150	0670	3486	2737		0007391		0145	14801										
		OBS	0150	0670	34860	2737					14801										
		STD	0200	0518	3470	2744		0006762		0180	14746										
		OBS	0200	0518	34700	2744					14746										
		OBS	0210	0534	34740	2745					14755										
		OBS	0240	0470	34710	2750					14733										
		STD	0250	0490	3478	2753		0005915		0212	14744										
		OBS	0250	0490	34778	2753					14744										
		OBS	0290	0550	34900	2756					14777										
		STD	0300	0547	3490	2756		0005720		0241	14777										
		OBS	0300	0547	34903	2756					14777										
		STD	0400	0475	3489	2764		0005055		0295	14764										
		OBS	0400	0475	34893	2764					14764										
		STD	0500	0452	3491	2768		0004786		0344	14771										
		OBS	0500	0452	34908	2768					14771										
		STD	0600	0436	3492	2770		0004630		0391	14782										
		OBS	0600	0436	34918	2770					14782										
		STD	0700	0420	3492	2772		0004559		0437	14791										
		OBS	0700	0420	34916	2772					14791										
		STD	0800	0415	3492	2773		0004546		0483	14806										
		OBS	0800	0415	34923	2773					14806										
		STD	0900	0399	3492	2774		0004510		0528	14816										
		OBS	0900	0399	34915	2774					14816										
		STD	1000	0396	3492	2775		0004537		0573	14831										
		OBS	1000	0396	34919	2775					14831										
		STD	1100	0385	3492	2776		0004515		0619	14843										
		OBS	1100	0385	34916	2776					14843										
		STD	1200	0380	3492	2776		0004549		0664	14858										
		OBS	1200	0380	34915	2776					14858										
		STD	1300	0371	3491	2777		0004567		0709	14871										
		OBS	1300	0371	34909	2777					14871										
		STD	1400	0367	3491	2777		0004600		0755	14886										
		OBS	1400	0367	34909	2777					14886										
		STD	1500	0361	3491	2778		0004606		0801	14900										
		OBS	1500	0361	34909	2778					14900										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCL	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
318008	EV	4408 N	04831 W	149 48	04	25	217	1967	11P	9911	3383	54	18	9	2	X6	0	3		0063	

318008	EV	4408 N	04831 W	149	48	04 25 217	1967	11P	9911	3383	04	18	9	2	X6	0	3				0063
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	18	S40	014	106	106	0	27	

DT	SD	18	S40	014	106	106	0	27	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	CTD
		STD	0000	0505	3373	2669	0013635	0000	14695								
	217	OBS	0000	0505	33732	2669			14695								
		STD	0010	0507	3375	2670	0013562	0014	14698								
		OBS	0010	0507	33746	2670			14698								
		STD	0020	0512	3375	2670	0013567	0027	14702								
	001	OBS	0020	0512	33754	2670			14702								
		OBS	0025	0513	33755	2670			14703								
		STD	0030	0514	3376	2670	0013555	0041	14704								
		OBS	0030	0514	33760	2670			14704								
		STD	0050	0820	3450	2687	0012012	0066	14839								
		OBS	0050	0820	34495	2687			14839								
		OBS	0062	0989	34930	2694			14909								
		STD	0075	0928	3486	2699	0010956	0095	14888								
		OBS	0075	0928	34864	2699			14888								
		OBS	0089	0910	34880	2703			14884								
		OBS	0090	0928	34920	2703			14891								
		STD	0100	0853	3481	2706	0010292	0122	14863								
		OBS	0100	0853	34805	2706			14863								
		STD	0125	0500	3431	2715	0009384	0146	14722								
		OBS	0125	0500	34310	2715			14722								
		OBS	0130	0451	34323	2722			14702								
		OBS	0141	0509	34405	2722			14729								
		STD	0150	0488	3440	2724	0008605	0169	14722								
		OBS	0150	0488	34400	2724			14722								
		OBS	0175	0394	34420	2735			14687								
		STD	0200	0625	3477	2736	0007565	0209	14791								
		OBS	0200	0625	34768	2736			14791								
		OBS	0204	0634	34786	2736			14795								
		OBS	0221	0495	34680	2745			14740								
		OBS	0240	0604	34850	2745			14790								
		STD	0250	0569	3485	2749	0006319	0244	14777								
		OBS	0250	0569	34850	2749			14777								
		STD	0300	0550	3489	2755	0005838	0274	14779								
		OBS	0300	0550	34892	2755			14779								
		OBS	0305	0537	34930	2760			14775								
		OBS	0358	0581	35000	2760			14802								
		OBS	0390	0466	34855	2762			14758								
		STD	0400	0474	3491	2765	0004954	0328	14764								
		OBS	0400	0474	34905	2765			14764								
		OBS	0405	0480	34920	2766			14768								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCL	MAPSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
318008	EV		4419 N	04927 W		149 49	04	27	166	1967	11P	9912	0068	00	01	4	2	X1	6	2	0054

318008	EV	4419 N	04927 W	149	49	04 27 166	1967	11P	9912	0068	00	01	4	2	X1	6	2				0064
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
		36	518	244	025	008	7	05	

		36	S18	244	025	008	7	05	
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MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SIO ₄ -Si $\mu\text{g} \cdot \text{dl}^{-1}$	pH	CTD
		STD	0000	0241	3276	2617	0018551	0000	14570								
	166	OBS	0000	0241	32758	2617			14570								
		STD	0010	0236	3276	2617	0018517	0019	14569								
	166	OBS	0010	0236	32758	2617			14569								
		STD	0020	0232	3276	2618	0018482	0037	14569								
	166	OBS	0020	0232	32759	2618			14569								
		STD	0030	0225	3277	2619	0018372	0055	14568								
	166	OBS	0030	0225	32767	2619			14568								
	166	OBS	0039	0184	33138	2652			14556								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	ID. NO.					MO DAY HR. 1/10							CRUISE NO.	STATION NUMBER			DIR.	HGT		PER		TYPE	AMT		
						10°	1°																		
31	8008	EV	4417 N	04914 W	149 49	04 27	180	1967	11P	9913	0082	01	01	5	2		X1	3	2		0065				
		WATER		WIND		BARO- METER		AIR TEMP. °C																	
		COLOR	TRANS. (M)	DIR.	SPEED OR FORCE	BARO- METER (mbx)		DRY TEMP.		WET BULB		VIS. CODE		NO. OBS. DEPTH		SPECIAL OBSERVATIONS									
					36	520	244	025	008	7	06														

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot at/l$	TOTAL-P $\mu g \cdot at/l$	NO ₂ -N $\mu g \cdot at/l$	NO ₃ -N $\mu g \cdot at/l$	SiO ₄ -Si $\mu g \cdot at/l$	pH	S C
		STD	0000	0271	3318	2648	0015603	0000	14589								
180		OBS	0000	0271	33178	2648			14589								
		STD	0010	0264	3318	2649	0015537	0016	14587								
180		OBS	0010	0264	33180	2649			14587								
		STD	0020	0253	3320	2651	0015303	0031	14585								
180		OBS	0025	0242	33212	2653			14581								
		STD	0030	0228	3323	2655	0014910	0046	14576								
180		OBS	0030	0228	33227	2655			14576								
		STD	0050	0179	3332	2667	0013840	0075	14559								
180		OBS	0050	0179	33322	2667			14559								
		STD	0075	0233	3351	2677	0012861	0108	14589								
180		OBS	0075	0233	33505	2677			14589								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	ID. NO.					MO DAY HR. 1/10							CRUISE NO.	STATION NUMBER		DIR.		HGT	PER		TYPE	AMT							
						10°	1°		MO	DAY														HR. 1/10					
318	008	EV	4414	N	04901	W	149	49	04	27	198	1967	IIP	9914		1282	12	01	5	2			x1	3	2				0066
		WATER		WIND		BARO- METER		AIR TEMP. °C						SPECIAL OBSERVATIONS															
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	IMB)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTH															
					36	518	240	006	-006	7	14																		

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SIO ₄ -Si $\mu g - at/l$	pH	S C
		STD	0000	0189	3320	2656	0014832	0000	14553								
198		OBS	0000	0189	33199	2656			14553								
		STD	0010	0189	3320	2656	0014864	0015	14555								
		STD	0020	0178	3319	2656	0014821	0030	14551								
198		OBS	0022	0174	33190	2656			14550								
		STD	0030	0160	3318	2657	0014784	0044	14545								
198		OBS	0045	0099	33164	2659			14520								
		STD	0050	0036	3317	2663	0014167	0073	14492								
198		OBS	0067	-0070	33169	2668			14446								
		STD	0075	-0026	3325	2673	0013218	0108	14469								
198		OBS	0091	0066	33425	2682			14516								
		STD	0100	0169	3351	2682	0012357	0140	14565								
		STD	0125	0411	3379	2684	0012336	0171	14677								
198		OBS	0135		33914												
		STD	0150	0587	3419	2695	0011329	0200	14759								
198		OBS	0182	0715	34631	2713			14821								
		STD	0200	0658	3464	2721	0008945	0251	14802								
		STD	0250	0525	3464	2738	0007353	0292	14757								
198		OBS	T0275	0472	34648	2745			14739								
		STD	0300	0430	3465	2750	0006262	0326	14726								
198		OBS	0367	0355	34651	2758			14705								
		STD	0400	0378	3471	2760	0005343	0384	14721								
		STD	0500	0425	3485	2766	0004908	0435	14759								
198		OBS	T0556	0437	34903	2769			14774								
		STD	0600	0426	3490	2770	0004648	0483	14777								
		STD	0700	0404	3490	2772	0004491	0528	14784								
198		OBS	T0752	0396	34896	2773			14790								
		STD	0800	0390	3490	2774	0004425	0573	14795								
		STD	0900	0383	3490	2775	0004431	0617	14809								
198		OBS	T0972	0380	34902	2775			14820								
		STD	1000	0380	3490	2775	0004470	0662	14824								
198		OBS	T1049	0380	34903	2775			14833								
		STD	1100	0379	3490	2775	0004531	0707	14841								
		STD	1200	0377	3491	2776	0004571	0752	14857								
212		OBS	T1232	0376	34908	2776			14862								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10°	1°	MO DAY HR.1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SLA	TYPE	AMT	

318008	EV	4411 N	04847 W	149	48	04	28	000	1967	IIP 9915	2834	13	35	2	2		X1	6	2	0067
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WATER		WIND		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB		

		36	520	240	006	000	7	13	
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MESSENGER TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	STATION NUMBER
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		STD	0000	-0006	3299	2651	0015293	0000	14462								
000		OBS	0000	-0006	32993	2651			14462								
		STD	0010	-0011	3301	2653	0015123	0015	14462								
		STD	0020	-0018	3303	2655	0014937	0030	14461								
000		OBS	0028	-0025	33047	2656			14459								
		STD	0030	-0027	3307	2658	0014604	0045	14459								
		STD	0050	-0050	3328	2676	0012900	0073	14454								
000		OBS	0054	-0054	33318	2680			14454								
		STD	0075	0102	3350	2686	0011987	0104	14531								
000		OBS	0082	0121	33544	2688			14541								
		STD	0100	0042	3358	2696	0011031	0132	14509								
000		OBS	0109	0035	33626	2700			14508								
		STD	0125	0197	3390	2712	0009617	0158	14587								
		STD	0150	0398	3426	2722	0008698	0181	14682								
000		OBS	T0165	0488	34437	2726			14725								
		STD	0200	0591	3471	2736	0007567	0222	14776								
000		OBS	0219	0623	34810	2739			14793								
		STD	0250	0568	3480	2746	0006657	0257	14776								
		STD	0300	0497	3479	2754	0005942	0289	14756								
000		OBS	T0335	0460	34785	2757			14746								
		STD	0400	0460	3485	2762	0005199	0345	14757								
		STD	0500	0459	3492	2768	0004781	0394	14775								
000		OBS	0539	0459	34938	2769			14781								
		STD	0600	0456	3496	2772	0004554	0441	14790								
000		OBS	T0661	0449	34967	2773			14798								
		STD	0700	0436	3496	2774	0004421	0486	14799								
		STD	0800	0408	3494	2775	0004337	0530	14803								
000		OBS	T0880	0391	34924	2776			14809								
		STD	0900	0388	3492	2776	0004320	0573	14811								
		STD	1000	0376	3492	2777	0004304	0616	14823								
		STD	1100	0368	3491	2777	0004339	0659	14836								
000		OBS	T1125	0367	34911	2777			14840								
		STD	1200	0366	3491	2777	0004394	0703	14852								
		STD	1300	0365	3492	2778	0004443	0747	14869								
000		OBS	T1321	0365	34917	2778			14872								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIRECTION	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.						10"	"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318008	EV		4409 N	04834 W		149	48	04	28	023	1967	IIP	9916	3109	11	35	3	2		X1	6	2	0068
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
		01	526	254	017	011	7	12															
MESSENGER TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C						
		STD	0000	0776	3417	2668	0013702	0000	14809														
023		OBS	0000	0776	34172	2668			14809														
		STD	0010	0775	3417	2668	0013721	0014	14811														
		STD	0020	0774	3417	2668	0013727	0027	14812														
023		OBS	0023	0774	34167	2668			14812														
		STD	0030	0767	3417	2669	0013661	0041	14811														
023		OBS	0045	0751	34166	2671			14807														
		STD	0050	0820	3435	2675	0013089	0068	14837														
023		OBS	0068	1000	34864	2687			14913														
		STD	0075	0967	3483	2689	0011826	0099	14902														
		STD	0100	0866	3475	2700	0010895	0127	14867														
		STD	0125	0791	3471	2708	0010133	0154	14843														
023		OBS	T0133	0772	34701	2710			14836														
		STD	0150	0750	3472	2715	0009520	0178	14831														
023		OBS	0174	0719	34735	2720			14823														
		STD	0200	0682	3475	2727	0008446	0223	14813														
		STD	0250	0621	3479	2738	0007421	0263	14798														
023		OBS	T0256	0615	34799	2740			14796														
		STD	0300	0579	3485	2748	0006511	0298	14790														
023		OBS	0336	0553	34884	2754			14786														
		STD	0400	0514	3489	2759	0005540	0358	14780														
		STD	0500	0468	3490	2765	0005033	0411	14778														
023		OBS	T0504	0466	34904	2766			14778														
		STD	0600	0442	3491	2769	0004760	0460	14784														
023		OBS	T0680	0427	34912	2771			14791														
		STD	0700	0425	3491	2771	0004640	0507	14793														
		STD	0800	0415	3492	2773	0004576	0553	14806														
023		OBS	T0896	0404	34924	2774			14817														
		STD	0900	0404	3492	2774	0004533	0598	14818														
		STD	1000	0390	3492	2775	0004457	0643	14829														
023		OBS	T1073	0380	34905	2775			14837														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
							CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		TYPE	AMT	

318016	EV	4020 N	05020 W	150	00 05 12 065	1967		9917	4663	15	14	4	2		X6	03	0001
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WATER			WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.		DRY BULB	WET BULB			
DT	SD	14	S12	186	167	167	6	45		

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S CODE
		STD	0000	1574	3556	2626	0017728	0000	15104								
	065	OBS	0000	1574	35561	2626			15104								
		OBS	0008	1573	35610	2630			15106								
		STD	0010	1532	3555	2634	0016924	0017	15092								
	003	OBS	0010	1532	35552	2634			15092								
		OBS	0011	1502	35631	2647			15084								
		STD	0020	1499	3562	2647	0015761	0034	15084								
		OBS	0020	1499	35620	2647			15084								
		STD	0030	1462	3567	2659	0014663	0049	15075								
		OBS	0030	1462	35669	2659			15075								
		OBS	0043	1467	35800	2668			15080								
		STD	0050	1447	3580	2672	0013492	0077	15075								
		OBS	0050	1447	35795	2672			15075								
		STD	0075	1404	3571	2674	0013331	0111	15064								
		OBS	0075	1404	35707	2674			15064								
		STD	0100	1389	3567	2675	0013356	0144	15063								
		OBS	0100	1389	35672	2675			15063								
		STD	0125	1361	3563	2677	0013173	0177	15057								
		OBS	0125	1361	35630	2677			15057								
		STD	0150	1342	3560	2679	0013086	0210	15055								
		OBS	0150	1342	35600	2679			15055								
		OBS	0166	1314	35556	2681			15048								
		OBS	0169	1349	35689	2684			15061								
		STD	0200	1324	3562	2685	0012694	0274	15057								
		OBS	0200	1324	35624	2685			15057								
		OBS	0203	1322	35614	2684			15057								
		OBS	0213	1286	35556	2687			15046								
		OBS	0220	1302	35611	2688			15053								
		STD	0250	1258	3552	2690	0012306	0337	15042								
		OBS	0250	1258	35520	2690			15042								
		OBS	0276	1247	35500	2690			15042								
		OBS	0290	1200	35460	2696			15028								
		STD	0300	1224	3557	2700	0011416	0396	15039								
		OBS	0300	1224	35571	2700			15039								
		OBS	0326	1170	35410	2698			15023								
		OBS	0342	1069	35319	2710			14989								
		OBS	0349	1069	35344	2712			14990								
		OBS	0380	0969	35210	2719			14958								
		OBS	0390	0970	35235	2721			14960								
		STD	0400	0961	3521	2720	0009622	0501	14958								
		OBS	0400	0961	35209	2720			14958								
		OBS	0430	0885	35148	2728			14934								
		STD	0500	0787	3507	2737	0008090	0590	14907								
		OBS	0500	0787	35068	2737			14907								
		OBS	0568	0622	34990	2754			14853								
		OBS	0580	0645	35010	2752			14864								
		STD	0600	0612	3497	2753	0006465	0663	14854								
		OBS	0600	0612	34970	2753			14854								
		OBS	0639	0590	34972	2756			14852								
		OBS	0671	0538	34950	2761			14836								
		OBS	0695	0555	34982	2762			14847								
		STD	0700	0538	3497	2763	0005624	0723	14841								
		OBS	0700	0538	34969	2763			14841								
		STD	0800	0498	3499	2769	0005103	0777	14841								
		OBS	0800	0498	34986	2769			14841								
		STD	0900	0479	3501	2772	0004834	0826	14850								
		OBS	0900	0479	35005	2772			14850								
		STD	1000	0462	3501	2775	0004659	0874	14860								
		OBS	1000	0462	35014	2775			14860								
		STD	1100	0451	3502	2777	0004571	0920	14872								
		OBS	1100	0451	35021	2777			14872								
		STD	1200	0429	3501	2778	0004477	0965	14880								
		OBS	1200	0429	35009	2778			14880								
		STD	1300	0416	3500	2779	0004508	1010	14891								
		OBS	1300	0416	34995	2779			14891								
		STD	1400	0408	3499	2779	0004527	1055	14904								
		OBS	1400	0408	34991	2779			14904								
		STD	1500	0396	3498	2780	0004527	1101	14916								
		OBS	1500	0396	34982	2780			14916								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MO	DAY	YEAR	STATION TIME (GMT)		ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.							CRUISE NO.	STATION NUMBER	10'	1'			MO	DAY	HR./10		DR.	HGT	
318016	EV		4050 N	05019 W	150	00	05	12	098	1967	9918	3840	15	15	5	2	X2	0	3	0002
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
		DT	SD	14	S18	152	178	172	6	38										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH				
		STD	0000	1685	3608	2640	0016406	0000	15144											
	098	OBS	0000	1685	36079	2640			15144											
		STD	0010	1627	3598	2646	0015848	0016	15127											
		OBS	0010	1627	35982	2646			15127											
		STD	0020	1561	3591	2655	0014971	0032	15107											
	003	OBS	0020	1561	35909	2655			15107											
		OBS	0025	1549	35908	2658			15105											
		STD	0030	1545	3591	2659	0014659	0046	15104											
		OBS	0030	1545	35909	2659			15104											
		OBS	0047	1530	35951	2666			15103											
		STD	0050	1556	3607	2668	0013820	0075	15113											
		OBS	0050	1556	36065	2668			15113											
		OBS	0058	1556	36064	2668			15114											
		STD	0075	1499	3595	2672	0013513	0109	15098											
		OBS	0075	1499	35951	2672			15098											
		OBS	0088	1498	35966	2674			15100											
		STD	0100	1485	3595	2675	0013324	0143	15097											
		OBS	0100	1485	35947	2675			15097											
		STD	0125	1450	3586	2676	0013303	0176	15089											
		OBS	0125	1450	35860	2676			15089											
		STD	0150	1419	3579	2678	0013227	0209	15082											
		OBS	0150	1419	35793	2678			15082											
		OBS	0183	1340	35610	2680			15060											
		STD	0200	1345	3565	2682	0012934	0274	15065											
		OBS	0200	1345	35648	2682			15065											
		OBS	0218	1299	35550	2684			15051											
		OBS	0237	1362	35762	2687			15078											
		STD	0250	1337	3569	2687	0012608	0338	15071											
		OBS	0250	1337	35690	2687			15071											
		STD	0300	1222	3553	2698	0011685	0399	15038											
		OBS	0300	1222	35529	2698			15038											
		OBS	0308	1160	35430	2702			15017											
		STD	0400	0939	3516	2720	0009655	0506	14949											
		OBS	0400	0939	35155	2720			14949											
		STD	0500	0740	3505	2742	0007494	0591	14889											
		OBS	0500	0740	35054	2742			14889											
		OBS	0560	0634	34993	2752			14856											
		STD	0600	0587	3499	2758	0005982	0659	14844											
		OBS	0600	0587	34990	2758			14844											
		OBS	0660	0551	35011	2764			14840											
		OBS	0680	0556	35030	2765			14845											
		OBS	0691	0592	35134	2769			14863											
		STD	0700	0591	3511	2768	0005256	0715	14864											
		OBS	0700	0591	35114	2768			14864											
		STD	0800	0500	3501	2771	0004922	0766	14842											
		OBS	0800	0500	35014	2771			14842											
		OBS	0870	0472	35018	2774			14843											
		OBS	0880	0479	35024	2774			14847											
		STD	0900	0474	3502	2774	0004667	0814	14848											
		OBS	0900	0474	35019	2774			14848											
		STD	1000	0449	3501	2776	0004515	0860	14855											
		OBS	1000	0449	35011	2776			14855											
		STD	1100	0438	3501	2778	0004478	0905	14867											
		OBS	1100	0438	35011	2778			14867											
		STD	1200	0422	3501	2779	0004416	0949	14877											
		OBS	1200	0422	35005	2779			14877											
		STD	1300	0410	3499	2779	0004467	0994	14888											
		OBS	1300	0410	34990	2779			14888											
		STD	1400	0400	3499	2780	0004430	1038	14901											
		OBS	1400	0400	34990	2780			14901											
		STD	1500	0390	3499	2781	0004389	1082	14914											
		OBS	1500	0390	34990	2781			14914											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH M	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR				HGT
318016	EV	4119 N	05017 W	150	10	05	12	132	1967		9919	3621	15	15	3	3		X2	0 3	0003
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
		DT	SD	13	S07	183	183	161	8	49										
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	NTS			
		STD	0000	1306	3511	2649	0015546	0000	15012											
132		OBS	0000	1306	35112	2649			15012											
		STD	0010	1300	3522	2658	0014681	0015	15013											
		OBS	0010	1300	35218	2658			15013											
		STD	0020	1200	3504	2664	0014131	0030	14979											
003		OBS	0020	1200	35042	2664			14979											
		OBS	0027	1134	34910	2666			14955											
		OBS	0028	1134	34910	2666			14955											
		STD	0030	1142	3495	2667	0013829	0043	14959											
		OBS	0030	1142	34945	2667			14959											
		OBS	0031	1250P	34945	2647P														
		OBS	0040	1100	35020	2681			14947											
		STD	0050	1110	3514	2689	0011879	0069	14953											
		OBS	0050	1110	35140	2689			14953											
		OBS	0070	1245	35480	2689			15008											
		STD	0075	1240	3546	2689	0011935	0099	15007											
		OBS	0075	1240	35461	2689			15007											
		STD	0100	1218	3542	2690	0011891	0129	15003											
		OBS	0100	1218	35420	2690			15003											
		STD	0125	1199	3539	2691	0011824	0158	15000											
		STD	0150	1190	3538	2692	0011796	0188	15001											
		OBS	0150	1190	35380	2692			15001											
		STD	0200	1200	3541	2693	0011880	0247	15013											
		OBS	0200	1200	35411	2693			15013											
		OBS	0242	1183	35375	2693			15013											
		STD	0250	1138	3533	2698	0011464	0305	14998											
		OBS	0250	1138	35330	2698			14998											
		OBS	0253	1149	35350	2698			15003											
		OBS	0268	1148	35365	2699			15005											
		OBS	0280	1120	35369	2704			14997											
		OBS	0281	1135	35365	2701			15003											
		STD	0300	1038	3519	2705	0010883	0361	14969											
		OBS	0300	1038	35185	2705			14969											
		STD	0400	0758	3499	2735	0008061	0456	14879											
		OBS	0400	0758	34990	2735			14879											
		OBS	0432	0714	34989	2741			14867											
		OBS	0438	0724	35035	2743			14872											
		STD	0500	0635	3498	2751	0006537	0529	14847											
		OBS	0500	0635	34983	2751			14847											
		STD	0600	0522	3491	2760	0005733	0590	14817											
		OBS	0600	0522	34910	2760			14817											
		OBS	0650	0538	34982	2764			14833											
		STD	0700	0507	3499	2768	0005078	0644	14828											
		OBS	0700	0507	34989	2768			14828											
		STD	0800	0483	3501	2772	0004772	0694	14835											
		OBS	0800	0483	35005	2772			14835											
		OBS	0855	0470	34992	2772			14839											
		OBS	0860	0462	34991	2773			14836											
		STD	0900	0462	3501	2775	0004588	0741	14843											
		OBS	0900	0462	35009	2775			14843											
		OBS	0960	0460	35014	2775			14853											
		STD	1000	0421	3495	2775	0004614	0787	14842											
		OBS	1000	0421	34950	2775			14842											
		OBS	1026	0411	34990	2779			14843											
		OBS	1040	0422	34980	2777			14850											
		OBS	1070	0405	34952	2776			14847											
		STD	1100	0403	3496	2777	0004449	0832	14851											
		OBS	1100	0403	34955	2777			14851											
		OBS	1120	0402	34978	2779			14855											
		OBS	1130	0410	34980	2778			14860											
		OBS	1158	0409	3492P	2773P														
		OBS	1161	0396	3492P	2775P														
		STD	1200	0391	3495	2778	0004443	0876	14863											
		OBS	1200	0391	34948	2778			14863											
		OBS	1218	0403	34970	2778			14871											
		STD	1300	0392	3496	2778	0004479	0921	14880											
		OBS	1300	0392	34957	2778			14880											
		STD	1400	0387	3496	2779	0004467	0966	14895											
		OBS	1400	0387	34962	2779			14895											
		OBS	1435	0384	34967	2780			14900											
		OBS	1439	0390	34970	2779			14903											
		STD	1500	0389	3497	2780	0004522	1011	14913											
		OBS	1500	0389	34970	2780			14913											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	Amt		
318016	EV		4138 N	05014 W		150	10	05	12	170	1967		9920		3795	15	16	2	2		X1	0	3	0004
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
		DT	SO	14	S10	173	189	161	7	53														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SIO ₄ -Si $\mu g - dl/l$	pH	S C							
		STD	0000	1309	3511	2648	0015619	0000	15013															
170		OBS	0000	1309	35110	2648			15013															
		OBS	0005	1319	35210	2654			15019															
003		OBS	0009	1261	35130	2659			14999															
		STD	0010	1331	3558	2680	0012624	0014	15028															
		OBS	0010	1331	35580	2680			15028															
		OBS	0011	1343	35583	2677			15032															
		STD	0020	1355	3563	2679	0012757	0027	15038															
		OBS	0020	1355	35630	2679			15038															
		OBS	0025	1370	35651	2677			15044															
		STD	0030	1320	3551	2676	0013016	0040	15027															
		OBS	0030	1320	35505	2676			15027															
		OBS	0039	1250	35450	2686			15004															
		STD	0050	1250	3544	2685	0012196	0065	15006															
		OBS	0050	1250	35442	2685			15006															
		OBS	0060	1235	35418	2686			15002															
		STD	0075	1223	3541	2688	0012007	0095	15000															
		OBS	0075	1223	35408	2688			15000															
		OBS	0080	1223	35409	2688			15001															
		OBS	0090	1151	35255	2690			14976															
		STD	0100	1148	3525	2690	0011841	0125	14976															
		OBS	0100	1148	35253	2690			14976															
		OBS	0115	1145	35260	2691			14978															
		OBS	0123	1153	35267	2690			14982															
		STD	0125	1150	3527	2691	0011850	0155	14981															
		OBS	0125	1150	35265	2691			14981															
		OBS	0129	1131	35230	2692			14975															
		OBS	0140	1130	35245	2693			14976															
		STD	0150	1145	3533	2697	0011345	0184	14984															
		OBS	0150	1145	35330	2697			14984															
		OBS	0159	1174	35388	2696			14997															
		OBS	0160	1184	35388	2694			15000															
		OBS	0170	1183	35400	2695			15002															
		OBS	0188	1198	35442	2695			15010															
		OBS	0190	1189	35442	2697			15008															
		STD	0200	1166	3542	2700	0011188	0240	15001															
		OBS	0200	1166	35420	2700			15001															
		OBS	0210	1179	35440	2699			15007															
		STD	0250	1050	3528	2710	0010285	0294	14966															
		OBS	0250	1050	35279	2710			14966															
		STD	0300	0910	3515	2724	0009026	0342	14922															
		OBS	0300	0910	35149	2724			14922															
		OBS	0350	0778	34995	2732			14878															
		STD	0400	0685	3499	2745	0007035	0422	14850															
		OBS	0400	0685	34988	2745			14850															
		OBS	0420	0646	34970	2749			14838															
		OBS	0440	0642	34983	2751			14840															
		OBS	0490	0505	34870	2759			14791															
		STD	0500	0506	3490	2761	0005489	0485	14794															
		OBS	0500	0506	34900	2761			14794															
		OBS	0508	0506	34947	2765			14796															
		OBS	0520	0525	34964	2764			14806															
		OBS	0590	0513	34957	2765			14812															
		STD	0600	0505	3498	2767	0005039	0537	14811															
		OBS	0600	0505	34975	2767			14811															
		OBS	0625	0515	35015	2769			14820															
		STD	0700	0501	3502	2771	0004796	0587	14826															
		OBS	0700	0501	35017	2771			14826															
		OBS	0740	0476	35005	2773			14822															
		OBS	0787	0473	35025	2775			14829															
		OBS	0790	0480	35022	2774			14833															
		STD	0800	0475	3502	2774	0004591	0634	14832															
		OBS	0800	0475	35016	2774			14832															
		STD	0900	0456	3502	2776	0004471	0679	14842															
		OBS	0900	0458	35018	2776			14842															
		STD	1000	0440	3502	2778	0004357	0723	14851															
		OBS	1000	0440	35017	2778			14851															
		STD	1100	0419	3500	2779	0004318	0766	14859															
		OBS	1100	0419	35000	2779			14859															
		STD	1200	0405	3499	2779	0004310	0809	14869															
		OBS	1200	0405	34990	2779			14869															
		STD	1300	0397	3499	2780	0004300	0853	14883															
		OBS	1300	0397	34990	2780			14883															
		STD	1400	0388	3498	2781	0004341	0896	14896															
		OBS	1400	0388	34981	2781			14896															
		STD	1500	0382	3498	2781	0004328	0939	14910															
		OBS	1500	0382	34984	2781			14910															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318016	EV		4207 N	05013 W	150	20	05	12	194	1967	9921		3072	15	16	3	2		X6	0 3		0005
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	VIS CODE												
		DT	SD	14	S12	169	156	144	6	77												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	3 C.C.					
		STD	0000	0992	3395	2617	0018578	0000	14888													
194		OBS	0000	0992	33950	2617			14888													
		STD	0010	1170	3508	2673	0013284	0016	14967													
		OBS	0010	1170	35080	2673			14967													
		STD	0020	1352	3561	2678	0012844	0029	15037													
003		OBS	0020	1352	35610	2678			15037													
		OBS	0025	1355	35626	2678			15039													
		STD	0030	1330	3557	2679	0012727	0042	15031													
		OBS	0030	1330	35571	2679			15031													
		OBS	0041	1324	35569	2680			15031													
		STD	0050	1264	3542	2680	0012658	0067	15010													
		OBS	0050	1264	35415	2680			15010													
		OBS	0055	1264	35419	2681			15011													
		OBS	0070	1208	35341	2686			14993													
		STD	0075	1211	3534	2685	0012276	0098	14995													
		OBS	0075	1211	35341	2685			14995													
		OBS	0080	1198	35329	2687			14991													
		OBS	0081	1153	35207	2686			14974													
		OBS	0090	1153	35209	2686			14976													
		STD	0100	1148	3521	2687	0012164	0129	14976													
		OBS	0100	1148	35209	2687			14976													
		OBS	0108	1167	35260	2687			14984													
		OBS	0120	1166	35275	2689			14986													
		STD	0125	1180	3534	2691	0011843	0159	14993													
		OBS	0125	1180	35340	2691			14993													
		OBS	0130	1170	35330	2692			14990													
		OBS	0135	1170	35340	2693			14991													
		OBS	0136	1165	35340	2694			14989													
		STD	0150	1162	3535	2695	0011504	0188	14991													
		OBS	0150	1162	35350	2695			14991													
		OBS	0165	1160	35370	2697			14993													
		OBS	0170	1150	35370	2699			14990													
		OBS	0176	1081	35230	2701			14965													
		OBS	0183	1067	35225	2703			14961													
		OBS	0185	1050	35198	2704			14955													
		STD	0200	1000	3516	2709	0010238	0242	14939													
		OBS	0200	1000	35155	2709			14939													
		OBS	0208	0940	35030	2710			14916													
		OBS	0230	0900	35090	2721			14906													
		OBS	0231	0880	35055	2721			14898													
		STD	0250	0853	3506	2726	0008729	0490	14891													
		OBS	0250	0853	35055	2726			14891													
		OBS	0260	0813	35010	2728			14877													
		OBS	0288	0657	34835	2737			14819													
		STD	0300	0640	3482	2738	0007556	0331	14814													
		OBS	0300	0640	34815	2738			14814													
		OBS	0305	0635	34830	2739			14813													
		OBS	0345	0635	34910	2746			14820													
		OBS	0378	0562	34832	2749			14795													
		OBS	0380	0561	34835	2749			14795													
		OBS	0381	0569	34838	2748			14799													
		OBS	0395	0571	34880	2752			14802													
		OBS	0396	0577	34880	2751			14805													
		STD	0400	0578	3490	2752	0006261	0400	14806													
		OBS	0400	0578	34900	2752			14806													
		OBS	0467	0562	34958	2759			14812													
		OBS	0476	0550	34958	2760			14808													
		OBS	0490	0510	34920	2762			14794													
		STD	0500	0508	3492	2762	0005402	0458	14795													
		OBS	0500	0508	34915	2762			14795													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDEX	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
				</																			

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METERS	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA		TYPE	AMT	
						WATER		WIND		BARO- METER (mb)			AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
		COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
318016	EV		4227 N	05012 W	150 20	05	12	220	1967		9922		2468	15	23	3	2		X4	0	3		0006
					DT	SD	22	512	173		100	100	4	70									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C					
		STD	0000	0792	3343	2608			0019424	0000	14806												
220		OBS	0000	0792	33433	2608					14806												
		STD	0010	0823	3351	2609			0019274	0019	14820												
		OBS	0010	0823	33514	2609					14820												
		STD	0020	0865	3391	2634			0016959	0037	14843												
003		OBS	0020	0865	33910	2634					14843												
		OBS	0023	0875	34016	2641					14849												
		STD	0030	0862	3416	2654			0015085	0053	14847												
		OBS	0030	0862	34159	2654					14847												
		OBS	0039	0830	34180	2661					14836												
		OBS	0041	0851	34217	2660					14845												
		OBS	0047	0847	34315	2669					14846												
		STD	0050	0830	3432	2672			0013434	0082	14840												
		OBS	0050	0830	34323	2672					14840												
		OBS	0061	0814	34351	2676					14836												
		OBS	0070	0827	34432	2681					14844												
		STD	0075	0865	3454	2683			0012403	0114	14860												
		OBS	0075	0865	34538	2683					14860												
		OBS	0088	0808	34434	2684					14839												
		OBS	0097	0933	34870	2698					14894												
		STD	0100	0905	3463	2684			0012379	0145	14881												
		OBS	0100	0905	34630	2684					14881												
		OBS	0120	0669	34485	2708					14791												
		STD	0125	0646	3445	2708			0010093	0173	14782												
		OBS	0125	0646	34450	2708					14782												
		OBS	0130	0642	34470	2710					14782												
		OBS	0131	0649	34470	2709					14785												
		OBS	0140	0649	34530	2714					14787												
		OBS	0145	0637	34532	2716					14783												
		STD	0150	0641	3456	2717			0009261	0198	14786												
		OBS	0150	0641	34558	2717					14786												
		OBS	0156	0674	34655	2720					14801												
		OBS	0166	0620	34602	2723					14781												
		OBS	0191	0634	34686	2728					14792												
		STD	0200	0520	3453	2730			0008092	0241	14745												
		OBS	0200	0520	34525	2730					14745												
		OBS	0217	0476	34528	2735					14730												
		OBS	0220	0489	34574	2737					14736												
		OBS	0230	0506	34631	2740					14746												
		STD	0250	0507	3467	2742			0006955	0279	14750												
		OBS	0250	0507	34665	2742					14750												
		OBS	0256	0507	34720	2747					14751												
		OBS	0257	0528	34765	2748					14761												
		OBS	0279	0528	34785	2749					14765												
		OBS	0299	0554	34812	2748					14779												
		STD	0300	0544	3478	2747			0006599	0312	14775												
		OBS	0300	0544	34780	2747					14775												
		OBS	0309	0500	34742	2749					14758												
		OBS	0313	0514	34803	2752					14765												
		OBS	0320	0482	34770	2754					14752												
		OBS	0365	0505	34892	2761					14771												
		OBS	0380	0544	34950	2760					14790												
		OBS	0391	0527	34912	2759					14784												
		STD	0400	0527	3492	2760			0005446	0373	14786												
		OBS	0400	0527	34924	2760					14786												
		OBS	0440	0484	34910	2764					14775												
		OBS	0486	0489	34933	2766					14785												
		STD	0500	0506	3497	2767			0004954	0425	14795												
		OBS	0500	0506	34972	2767					14795												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VSL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB							
						CODE														
MESSNGR TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ⁷		$\Sigma \Delta$ D DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S	C	

OBS	0504	0509	34970	2766					14796								
OBS	0541	0491	34945	2766					14795								
OBS	0560	0451	34897	2767					14781								
OBS	0560	0457	34930	2769					14787								
OBS	0599	0454	34940	2770					14789								
STD	0600	0457	3495	2770			0004677	0473	14791								
OBS	0600	0457	34945	2770					14791								
OBS	0639	0467	34968	2771					14802								
OBS	0650	0487	3499P	2770P													
OBS	0671	0487	34960	2768					14815								
OBS	0678	0456	34960	2772					14803								
OBS	0691	0455	34950	2771					14805								
STD	0700	0442	3495	2772			0004560	0519	14801								
OBS	0700	0442	34951	2772					14801								
OBS	0727	0422	34949	2774					14797								
OBS	0750	0466	34998	2773					14820								
OBS	0790	0468	34998	2773					14827								
STD	0800	0465	3500	2774			0004599	0565	14828								
OBS	0800	0465	34998	2774					14828								
OBS	0830	0445	34995	2776					14824								
OBS	0861	0455	34997	2775					14834								
STD	0900	0450	3500	2775			0004526	0610	14838								
OBS	0900	0450	34997	2775					14838								
STD	1000	0431	3500	2777			0004399	0655	14847								
OBS	1000	0431	34996	2777					14847								
STD	1100	0417	3500	2779			0004322	0699	14858								
OBS	1100	0417	34996	2779					14858								
STD	1200	0404	3497	2778			0004459	0743	14869								
OBS	1200	0404	34968	2778					14869								
STD	1300	0394	3497	2779			0004424	0787	14881								
OBS	1300	0394	34968	2779					14881								
STD	1400	0387	3496	2779			0004460	0831	14895								
OBS	1400	0387	34963	2779					14895								
STD	1500	0380	3496	2780			0004471	0876	14909								
OBS	1500	0380	34961	2780					14909								

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARS DEN	STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				CLOUD	NDDC
					MO	DAY	HR./10		CRUISE	STATION			DIR	HGT	PER	SEA		
CTRY	ID.			10"	1"				NO.	NUMBER	TO	OF					TYPE	STATION
CODE	NO.										BOTTOM	SAMPLES					AMT	NUMBER

WATER		WIND		BARO-METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	26	S07	149	089	089	4	34	

MESSAGE	CASE	CARD	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME	Δ D	SOUND	O ₂ ml/l	PD ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	TYPE					ANOMALY-10 ³	DYN. M. x 10 ³	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		CC/L
HR 1/10																	
238		OBS	0000	03070	34330	27370											
		OBS	0010	05720	34000	26820											
001		OBS	0020	03400	33410	26600											
		OBS	0030	06150	34200	26920											
		OBS	0043	08260	34250	26670											
		OBS	0050	09120	34590	26800											
		OBS	0068	06190	34170	26890											
		OBS	0075	06510	34360	27000											
		OBS	0082	06930	34320	26910											
		OBS	0097	03620	33990	27040											
		OBS	0100	04340	34570	27430											
		OBS	0117	03730	34230	27220											
		OBS	0125	04180	34260	27200											
		OBS	0147	0422	34350	2727				14693							
		STD	0150	0439	3433	2723	0008604			14700							
		OBS	0150	0439	34329	2723				14700							
		OBS	0157	0421	34329	2725				14694							
		STD	0200	0444	3445	2733	0007786			14712							
		OBS	0200	0444	34452	2733				14712							
		OBS	0207	0441	34440	2732				14712							
		OBS	0223	0479	34520	2734				14732							
		OBS	0235	0479	34575	2738				14734							
		OBS	0240	0501	34560	2735				14744							
		STD	0250	0502	3458	2736	0007516			14746							
		OBS	0250	0502	34582	2736				14746							
		OBS	0288	0511	34731	2747				14758							
		OBS	0291	0538	34725	2743				14770							
		OBS	0296	0523	34749	2747				14765							
		STD	0300	0540	3480	2749	0006416			14773							
		OBS	0300	0540	34798	2749				14773							
		OBS	0320	0636	34945	2748				14817							
		OBS	0370	0482	34856	2760				14762							
		OBS	0390	0522	34909	2760				14782							
		STD	0400	0488	3489	2762	0005223			14769							
		OBS	0400	0488	34891	2762				14769							
		OBS	0410	0474	34894	2764				14765							
		OBS	0420	0489	34914	2764				14773							
		OBS	0435	0462	34910	2767				14765							
		OBS	0478	0457	34927	2769				14770							

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		4245 N	05010 W		150	20	05	13	012	1967		9924	0128	01	23	3	3		X4	0	3	0008
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB															
		DT	SD	22	S10	166	078	078	3	21													
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S CC						
		STD	0000	0314	3286	2619	0018375	0000	14603														
	012	OBS	0000	0314	32858	2619			14603														
		OBS	0003	0314	32840	2617			14603														
	003	OBS	0006	0269	32870	2624			14585														
		OBS	0008	0279	32880	2624			14590														
		STD	0010	0260	3287	2625	0017821	0018	14581														
		OBS	0010	0260	32874	2625			14581														
		STD	0020	0152	3293	2638	0016598	0035	14536														
		OBS	0020	0152	32934	2638			14536														
		OBS	0027	0034	33118	2659			14487														
		STD	0030	0038	3312	2659	0014547	0051	14489														
		OBS	0030	0038	33117	2659			14489														
		OBS	0035	0051	33150	2661			14496														
		OBS	0048	-0019	33292	2676			14468														
		STD	0050	-0015	3330	2676	0012885	0078	14471														
		OBS	0050	-0015	33301	2676			14471														
		OBS	0056	0065	33297	2672			14508														
		OBS	0068	0023	33350	2679			14492														
		OBS	0070	0021	33370	2680			14491														
		STD	0075	0040	3343	2684	0012180	0110	14502														
		OBS	0075	0040	33428	2684			14502														
		OBS	0082	0064	33430	2683			14514														
		OBS	0095	0060	33441	2684			14514														
		STD	0100	0090	3356	2692	0011444	0139	14530														
		OBS	0100	0090	33562	2692			14530														
		OBS	0110	0105	33553	2690			14539														
		OBS	0115	0097	33590	2694			14536														
		OBS	0119	0110	33580	2692			14543														

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		4256 N	05010 W		150	20	05	13	022	1967		9925	0064	00	20	2	3		X4	0	3	0009
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
01		50	18	S12	055	078	078	3	11														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml}^{-1}$	TOTAL-P $\mu\text{g} - \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} - \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} - \text{ml}^{-1}$	SIO ₄ -Si $\mu\text{g} - \text{ml}^{-1}$	pH	S CC						
		STD	0000	0524	3322	2626	0017691	0000	14696														
	022	OBS	0000	0524	33219	2626			14696														
		OBS	0007	0523	33210	2625			14697														
		STD	0010	0500	3317	2625	0017809	0018	14687														
	000	OBS	0010	0500	33170	2625			14687														
		OBS	0012	0443	33300	2641			14666														
		OBS	0019	0448	33362	2646			14670														
		STD	0020	0428	3340	2651	0015348	0034	14662														
		OBS	0020	0428	33400	2651			14662														
		STD	0030	0378	3341	2657	0014798	0049	14643														
		OBS	0030	0378	33410	2657			14643														
		OBS	0035	0338	33495	2667			14628														
		OBS	0040	0354	33545	2670			14636														
		OBS	0045	0320	33539	2672			14622														
		STD	0050	0318	3357	2675	0013068	0077	14623														
		OBS	0050	0318	33569	2675			14623														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	INSTRUMENT	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT					
																OT	SD	16	S24		152	078		072	43		
318016	EV		4432 N	04850 W		149	48	05	13	146	1967		9928		1646	15	15	2	2		X1	0	3		0012		
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	METER (mbs)		DRY BULB	WET BULB																		
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ D DTN. M. X 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH							
		STD	0000	0161	3288	2632		0017103		0000		14536															
	146	OBS	0000	0161	32875	2632						14536															
		STD	0010	0161	3287	2632		0017142		0017		14538															
		OBS	0010	0161	32870	2632						14538															
		STD	0020	0156	3286	2632		0017156		0034		14537															
	003	OBS	0020	0156	32864	2632						14537															
		STD	0030	0070	3297	2645		0015866		0051		14502															
		OBS	0030	0070	32966	2645						14502															
		STD	0050	0015	3300	2651		0015337		0082		14480															
		OBS	0050	0015	32998	2651						14480															
		STD	0075	-0010	3305	2656		0014831		0120		14474															
		OBS	0075	-0010	33048	2656						14474															
		STD	0100	-0085	3315	2667		0013720		0155		14444															
		OBS	0100	-0085	33152	2667						14444															
		OBS	0110	-0038	33171	2669						14445															
		STD	0125	-0076	3322	2672		0013221		0189		14454															
		OBS	0125	-0076	33220	2672						14454															
		STD	0150	-0099	3332	2681		0012397		0221		14448															
		OBS	0150	-0099	33315	2681						14448															
		STD	0200	0150	3376	2704		0010351		0278		14576															
		OBS	0200	0150	33760	2704						14576															
		OBS	0211	0216	33806	2703						14608															
		OBS	0220	0109	33728	2704						14561															
		STD	0250	0145	3393	2718		0009041		0326		14585															
		OBS	0250	0145	33930	2718						14585															
		OBS	0265	0419	34310	2724						14711															
		OBS	0280	0419	34324	2725						14714															
		OBS	0290	0429	34363	2727						14720															
		STD	0300	0415	3441	2733		0007865		0369		14716															
		OBS	0300	0415	34413	2733						14716															
		OBS	0315	0459	34514	2736						14739															
		OBS	0330	0475	34615	2742						14749															
		OBS	0340	0505	34620	2739						14763															
		OBS	0380	0507	34666	2742						14771															
		STD	0400	0491	3464	2742		0007127		0444		14767															
		OBS	0400	0491	34640	2742						14767															
		OBS	0415	0490	34643	2743						14770															
		OBS	0475	0334	34550	2752						14713															
		STD	0500	0342	3465	2759		0005522		0507		14722															
		OBS	0500	0342	34647	2759						14722															
		OBS	0520	0375	34690	2759						14740															
		OBS	0540	0365	34660	2757						14738															
		OBS	0555	0363	34650	2757						14740															
		OBS	0570	0350	34676	2760						14737															
		STD	0600	0357	3469	2761		0005440		0562		14745															
		OBS	0600	0357	34690	2761						14745															
		OBS	0630	0396	34769	2763						14768															
		STD	0700	0408	3479	2763		0005332		0616		14785															
		OBS	0700	0408	34793	2763						14785															
		OBS	0750	0454	34860	2764						14813															
		OBS	0770	0441	34857	2765						14811															
		STD	0800	0443	3487	2766		0005268		0669		14817															
		OBS	0800	0443	34871	2766						14817															
		STD	0900	0455	3490	2767		0005283		0721		14839															
		OBS	0900	0455	34903	2767						14839															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						CTRY CODE	ID. NO.	10"		1"	MO DAY HR, 1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
318016	EV		4430 N	04836 W	149	48	05	13 158	1967		9929	2286	15	16	4	2		X1	0 3	0013
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
COLOR		TRANS. (m)		DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
DT	SD	16	S22	156	106	100	6	55												

MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	$\frac{1}{2}$ C
		STD	0000	0514	3354	2652	0015211	0000	14696								
138		OBS	0000	0514	33535	2652			14696								
		STD	0010	0362	3339	2657	0014756	0015	14633								
		OBS	0010	0362	33394	2657			14633								
004		OBS	0011	0295	33577	2678			14606								
		OBS	0013	0343	33590	2674			14628								
		STD	0020	0341	3361	2676	0012944	0029	14628								
		OBS	0020	0341	33610	2676			14628								
		OBS	0027	0293	33630	2682			14609								
		STD	0030	0338	3367	2681	0012456	0042	14629								
		OBS	0030	0338	33672	2681			14629								
		OBS	0032	0275	33650	2685			14602								
		OBS	0039	0411	33806	2685			14664								
		OBS	0047	0250	33863	2704			14597								
		STD	0050	0253	3389	2706	0010098	0064	14599								
		OBS	0050	0253	33890	2706			14599								
		OBS	0052	0229	33902	2709			14589								
		OBS	0065	0225	34037	2720			14591								
		STD	0075	0253	3408	2721	0008690	0088	14606								
		OBS	0075	0253	34078	2721			14606								
		STD	0100	0295	3427	2733	0007612	0108	14630								
		OBS	0100	0295	34270	2733			14630								
		OBS	0102	0285	34290	2735			14627								
		OBS	0110	0300	34330	2737			14635								
		STD	0125	0375	3448	2742	0006833	0126	14672								
		OBS	0125	0375	34475	2742			14672								
		STD	0150	0396	3454	2745	0006576	0143	14685								
		OBS	0150	0396	34540	2745			14685								
		OBS	0168	0397	34573	2747			14689								
		OBS	0182	0347	34604	2755			14671								
		STD	0200	0398	3470	2757	0005444	0173	14697								
		OBS	0200	0398	34700	2757			14697								
		OBS	0205	0370	34730	2762			14686								
		OBS	0215	0427	34733	2757			14712								
		OBS	0220	0414	34738	2758			14707								
		OBS	0239	0440	34771	2758			14722								
		STD	0250	0425	3475	2758	0005395	0200	14717								
		OBS	0250	0425	34751	2758			14717								
		OBS	0253	0419	34777	2761			14715								
		OBS	0261	0437	34789	2760			14724								
		OBS	0269	0430	34795	2761			14723								
		OBS	0286	0450	34817	2761			14734								
		OBS	0294	0425	34870	2768			14726								
		STD	0300	0456	3488	2765	0004824	0225	14740								
		OBS	0300	0456	34880	2765			14740								
		OBS	0308	0451	34862	2764			14739								
		OBS	0338	0469	34860	2762			14751								
		OBS	0340	0445	34863	2765			14742								
		OBS	0351	0438	34873	2767			14741								
		STD	0400	0457	3491	2768	0004713	0273	14757								
		OBS	0400	0457	34911	2768			14757								
		STD	0500	0446	3492	2770	0004612	0320	14769								
		OBS	0500	0446	34922	2770			14769								
		STD	0600	0432	3492	2771	0004546	0366	14780								
		OBS	0600	0432	34923	2771			14780								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	TIME 1/10	MARS SQUARE		STATION TIME (GMT)				ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO, NO.					10"	1"	MO	DAY	HR./10	YEAR	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	TAMT	
318016	EV					4427 N	048215W	149	48	05	13	176	1967			9930	3200	15	16		2	2	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		DT	SD	16	S20	152	100	094	6	46													
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH							
174	STD	0000	0266	3314	2645	0015851	0000	14586															
	OBS	0000	0266	33140	2645			14586															
003	STD	0010	0260	3321	2651	0015278	0016	14586															
	OBS	0010	0260	33210	2651			14586															
	OBS	0016	0089	33240	2666			14512															
	STD	0020	0125	3328	2667	0013798	0030	14529															
	OBS	0020	0125	33280	2667			14529															
	OBS	0026	0159	33350	2670			14546															
	STD	0030	0130	3333	2671	0013450	0044	14534															
	OBS	0030	0130	33330	2671			14534															
	OBS	0035	0005	33320	2677			14478															
	STD	0050	-0050	3347	2692	0011445	0069	14457															
	OBS	0050	-0050	33470	2692			14457															
	OBS	0060	0120	33690	2700			14539															
	OBS	0071	0380	33940	2699			14658															
	STD	0075	0350	3391	2699	0010803	0096	14645															
	OBS	0075	0350	33910	2699			14645															
	OBS	0080	0330	33980	2707			14638															
	OBS	0090	0365	34110	2714			14657															
	STD	0100	0415	3418	2714	0009463	0122	14680															
	OBS	0100	0415	34175	2714			14680															
	OBS	0105	0295	34160	2724			14630															
STD	0125	0405	3433	2727	0008228	0144	14682																
OBS	0125	0405	34329	2727			14682																
STD	0150	0310	3431	2735	0007478	0164	14646																
OBS	0150	0310	34310	2735			14646																
OBS	0160	0316	34410	2742			14651																
OBS	0175	0387	34500	2742			14685																
OBS	0190	0365	34535	2747			14679																
STD	0200	0372	3455	2748	0006305	0198	14684																
OBS	0200	0372	34550	2748			14684																
OBS	0209	0351	34590	2753			14677																
OBS	0240	0415	34710	2756			14710																
STD	0250	0400	3472	2759	0005362	0227	14706																
OBS	0250	0400	34720	2759			14706																
OBS	0251	0385	34725	2760			14700																
STD	0300	0445	3481	2761	0005224	0254	14734																
OBS	0300	0445	34810	2761			14734																
OBS	0315	0412	34770	2761			14722																
OBS	0329	0411	34780	2762			14724																
OBS	0341	0503	34910	2762			14766																
OBS	0350	0488	34930	2766			14762																
OBS	0372	0512	34951	2764			14776																
STD	0400	0505	3497	2767	0004852	0304	14778																
OBS	0400	0505	34968	2767			14778																
OBS	0420	0481	34955	2768			14771																
OBS	0460	0496	34988	2769			14784																
STD	0500	0470	3497	2771	0004536	0351	14780																
OBS	0500	0470	34970	2771			14780																
STD	0600	0447	3497	2773	0004373	0395	14787																
OBS	0600	0447	34970	2773			14787																
OBS	0690	0420	34941	2774			14790																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	CRUISE INDIC	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER	SEA	WEA- THER CODE		TYPE
						WATER		WIND		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB											
MESSENGER TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND MALT-X10 ³		Σ Δ O DYN. M x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₂ -Si μg - at/l	pH				
		STD	0700	0403	3495	2776		0004109	0438	14785												
		OBS	0700	0403	34950	2776				14785												
		STD	0800	0408	3496	2777		0004189	0479	14804												
		OBS	0800	0408	34960	2777				14804												
		STD	0900	0402	3496	2777		0004205	0521	14818												
		OBS	0900	0402	34961	2777				14818												
		STD	1000	0402	3497	2778		0004233	0564	14835												
		OBS	1000	0402	34970	2778				14835												
		STD	1100	0391	3497	2779		0004191	0506	14847												
		OBS	1100	0391	34970	2779				14847												
		STD	1200	0381	3497	2780		0004157	0547	14859												
		OBS	1200	0381	34970	2780				14859												
		STD	1300	0379	3497	2781		0004219	0589	14875												
		OBS	1300	0379	34970	2781				14875												
		STD	1400	0380	3498	2781		0004282	0732	14892												
		OBS	1400	0380	34975	2781				14892												
		STD	1500	0380	3498	2781		0004332	0775	14909												
		OBS	1500	0380	34980	2781				14909												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT N/E/S	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	OBS.				TYPE	AMT					
																DIR.	HGT	PER					SEA			
318016		EV	4424 N	04807 W		149	48	05	13	188	1967		9931	3347	15	15	5	3		X1	0	3		0015		
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						DT	SD	16	525		156	120				116	6	52								
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C								
		STD	0000	0333	3300	2628	0017464		0000	14613																
188		OBS	0000	0333	33000	2628				14613																
		STD	0010	1021	3457	2660	0014463		0016	14908																
		OBS	0010	1021	34573	2660				14908																
		STD	0020	1053	3470	2665	0014078		0030	14922																
003		OBS	0020	1053	34700	2665				14922																
		OBS	0021	1067	34701	2662				14928																
		STD	0030	1005	3471	2674	0013232		0044	14907																
		OBS	0030	1005	34710	2674				14907																
		OBS	0032	0929	34702	2686				14879																
		OBS	0045	1050	34891	2680				14928																
		STD	0050	1044	3489	2681	0012585		0070	14927																
		OBS	0050	1044	34891	2681				14927																
		OBS	0073	0970	34870	2692				14903																
		STD	0075	0975	3492	2695	0011290		0100	14906																
		OBS	0075	0975	34920	2695				14906																
		OBS	0085	1058	35230	2705				14942																
		OBS	0090	1016	35150	2706				14926																
		OBS	0095	1130	35229	2692				14969																
		STD	0100	1095	3521	2697	0011222		0128	14957																
		OBS	0100	1095	35210	2697				14957																
		OBS	0110	1031	35140	2703				14935																
		OBS	0120	1034	35148	2703				14938																
		STD	0125	0961	3508	2710	0009997		0154	14911																
		OBS	0125	0961	35079	2710				14911																
		OBS	0131	0969	35110	2711				14915																
		STD	0150	0910	3503	2715	0009585		0179	14896																
		OBS	0150	0910	35032	2715				14896																
		OBS	0190	0772	34877	2724				14848																
		STD	0200	0799	3491	2722	0008915		0225	14860																
		OBS	0200	0799	34908	2722				14860																
		OBS	0230	0671	34830	2735				14815																
		OBS	0239	0683	34830	2733				14821																
		OBS	0240	0662	34843	2737				14813																
		STD	0250	0690	3497	2743	0007036		0265	14827																
		OBS	0250	0690	34965	2743				14827																
		OBS	0253	0698	34965	2741				14831																
		OBS	0290	0461P	3485P	2762P																				
		STD	0300	0568	3489	2753	0006075		0298	14786																
		OBS	0300	0568	34890	2753				14786																
		OBS	0310	0523	34822	2753				14768																
		OBS	0320	0529	34831	2753				14772																
		OBS	0349	0455	34775	2757				14746																
		OBS	0352	0493	34891	2762				14764																
		OBS	0377	0499	34893	2761				14770																
		OBS	0379	0483	34869	2761				14764																
		OBS	0390	0497	34891	2761				14772																
		STD	0400	0485	3489	2763	0005187		0354	14768																
		OBS	0400	0485	34891	2763				14768																
		OBS	0415	0461	34889	2765				14761																
		OBS	0445	0549	35017	2765				14804																
		OBS	0465	0489	34950	2767				14782																
		OBS	0490	0479	35005	2772				14782																
		STD	0500	0500	3501	2770	0004606		0403	14793																
		OBS	0500	0500	35009	2770				14793																
		OBS	0520	0506	35005	2769				14798																
		STD	0600	0476	3500	2772	0004497		0448	14799																
		OBS	0600	0476	35000	2772				14799																

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	MARS DEN SQUARE	STATION TIME (GMT)			ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO DAY HR. 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
						WATER		WIND	BARO-	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB							
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY-10 ³		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SI O ₄ -S µg - at/l	pH	S NO.
		STD	0700	0447	3500	2776	0004256		0492		14804								
		OBS	0700	0447	35000	2776					14804								
		STD	0800	0429	3500	2778	0004143		0534		14813								
		OBS	0800	0429	35000	2778					14813								
		STD	0900	0415	3500	2779	0004074		0575		14824								
		OBS	0900	0415	35000	2779					14824								
		STD	1000	0401	3498	2779	0004125		0616		14834								
		OBS	1000	0401	34983	2779					14834								
		STD	1100	0387	3497	2780	0004112		0657		14845								
		OBS	1100	0387	34974	2780					14845								
		STD	1200	0379	3497	2780	0004147		0699		14858								
		OBS	1200	0379	34968	2780					14858								
		STD	1300	0375	3497	2781	0004176		0740		14873								
		OBS	1300	0375	34969	2781					14873								
		STD	1400	0370	3497	2781	0004198		0782		14888								
		OBS	1400	0370	34969	2781					14888								
		STD	1500	0370	3497	2781	0004275		0825		14905								
		OBS	1500	0370	34970	2781					14905								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

318016	EV		4423 N	04754 W	149	47	05	13	203	1967	9932		3475	15	15	5	2		X1	0	3	0016
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. DIR.	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			

OT	SD	16	S25	156	117	106	6	49	
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
		STD	0000	1165	3480	2652	0015217	0000	14960								
	203	OBS	0000	1165	3480	2652			14960								
		STD	0010	1162	3480	2653	0015188	0015	14961								
		OBS	0010	1162	3480	2653			14961								
		STD	0020	1132	3477	2656	0014910	0030	14951								
	004	OBS	0020	1132	3477	2656			14951								
		STD	0030	1069	3481	2670	0013596	0045	14931								
		OBS	0030	1069	3480	2670			14931								
		OBS	0031	1058	34830	2674			14928								
		OBS	0035	1064	34849	2674			14931								
		STD	0050	0992	3478	2681	0012583	0071	14906								
		OBS	0050	0992	34775	2681			14906								
		OBS	0062	0989	34779	2682			14907								
		OBS	0069	0997	34845	2686			14912								
		STD	0075	0990	3480	2683	0012435	0102	14910								
		OBS	0075	0990	34798	2683			14910								
		OBS	0088	0983	34800	2684			14910								
		STD	0100	0985	3481	2685	0012304	0133	14912								
		OBS	0100	0985	34812	2685			14912								
		STD	0125	1061	3512	2696	0011342	0162	14948								
		OBS	0125	1061	35122	2696			14948								
		OBS	0132	1016	35005	2695			14931								
		OBS	0136	1074	35180	2698			14955								
		STD	0150	0996	3508	2704	0010600	0190	14928								
		OBS	0150	0996	35082	2704			14928								
		OBS	0188	0873	34945	2714			14887								
		OBS	0195	0824	34945	2721			14870								
		STD	0200	0847	3495	2718	0009319	0240	14879								
		OBS	0200	0847	34950	2718			14879								
		OBS	0220	0773	34890	2725			14854								
		OBS	0232	0830	34990	2724			14879								
		STD	0250	0770	3495	2730	0008271	0284	14858								
		OBS	0250	0770	34950	2730			14858								
		OBS	0268	0703	34888	2735			14834								
		OBS	0282	0699	34919	2738			14835								
		OBS	0297	0718	34985	2740			14846								
		STD	0300	0708	3496	2739	0007439	0323	14842								
		OBS	0300	0708	34955	2739			14842								
		OBS	0310	0691	34962	2742			14837								
		OBS	0315	0720	35035	2744			14851								
		OBS	0325	0684	34999	2746			14838								
		OBS	0340	0728	35122	2750			14859								
		STD	0400	0593	3492	2752	0006342	0392	14813								
		OBS	0400	0593	34915	2752			14813								
		OBS	0440	0411	34750	2760			14742								
		OBS	0461	0387	34741	2762			14736								
		STD	0500	0507	3495	2765	0005130	0449	14795								
		OBS	0500	0507	34950	2765			14795								
		OBS	0510	0541	35015	2766			14811								
		OBS	0540	0541	35018	2766			14816								
		OBS	0570	0479	34960	2769			14795								
		STD	0600	0480	3497	2769	0004783	0499	14800								
		OBS	0600	0480	34968	2769			14800								
		OBS	0630	0507	35012	2770			14817								
		OBS	0675	0466	34992	2773			14807								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DATE MO DAY	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY		HR. /10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB								
MESSENGR TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C	

STD	0700	0466	3500	2774	0004480	0545	14812											
OBS	0700	0466	35001	2774			14812											
STD	0800	0442	3500	2776	0004294	0589	14818											
OBS	0800	0442	35001	2776			14818											
STD	0900	0418	3499	2778	0004177	0631	14825											
OBS	0900	0418	34991	2778			14825											
STD	1000	0400	3497	2778	0004209	0673	14834											
OBS	1000	0400	34970	2778			14834											
STD	1100	0395	3498	2779	0004203	0715	14848											
OBS	1100	0395	34975	2779			14848											
STD	1200	0384	3497	2780	0004194	0757	14860											
OBS	1200	0384	34970	2780			14860											
STD	1300	0378	3497	2781	0004214	0799	14875											
OBS	1300	0378	34969	2781			14875											
STD	1400	0370	3497	2781	0004198	0841	14888											
OBS	1400	0370	34969	2781			14888											
STD	1500	0378	3499	2782	0004232	0883	14909											
OBS	1500	0378	34990	2782			14909											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
CTRY CODE	ID. NO.					10°	1°	MO		DAY	HR:1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT							
318016		EV	4419 N	04733 W	149 47	05 13	223	1967		9933		3749	15	15	3	2		X1	0	3		0017								
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																
COLOR CODE		TRANS. (m)	DIR	SPEED OR FORCE	DIR	WET BULB	ORY BULB	WET BULB																						
					DT	SD	16	S30	159	150	139	6	38																	
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³		Σ Δ D DYN. M. X 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH													
		STD	0000	1367	3529	2650			0015436	0000	15035																			
	223	OBS	0000	1367	35289	2650					15035																			
		STD	0010	1366	3530	2650			0015400	0015	15036																			
		OBS	0010	1366	35295	2650					15036																			
		STD	0020	1370	3533	2652			0015236	0031	15039																			
	003	OBS	0020	1370	35332	2652					15039																			
		STD	0030	1380	3551	2664			0014167	0045	15046																			
		OBS	0030	1380	35509	2664					15046																			
		OBS	0039	1433	35694	2667					15067																			
		STD	0050	1408	3568	2671			0013566	0073	15061																			
		OBS	0050	1408	35676	2671					15061																			
		STD	0075	1269	3539	2678			0013003	0106	15015																			
		OBS	0075	1269	35390	2678					15015																			
		STD	0100	1200	3527	2681			0012696	0139	14994																			
		OBS	0100	1200	35265	2681					14994																			
		OBS	0110	1199	35288	2683					14996																			
		STD	0125	1247	3541	2683			0012580	0170	15016																			
		OBS	0125	1247	35409	2683					15016																			
		OBS	0130	1179	35239	2683					14992																			
		OBS	0140	1189	35250	2682					14997																			
		STD	0150	1162	3521	2685			0012511	0201	14989																			
		OBS	0150	1162	35213	2685					14989																			
		OBS	0170	1078	35095	2691					14961																			
		STD	0200	1180	3544	2699			0011291	0261	15006																			
		OBS	0200	1180	35441	2699					15006																			
		STD	0250	1064	3531	2710			0010300	0315	14972																			
		OBS	0250	1064	35310	2710					14972																			
		OBS	0270	1005	35210	2713					14953																			
		OBS	0288	0896	35098	2722					14914																			
		OBS	0298	0930	35120	2718					14929																			
		STD	0300	0904	3510	2721			0009284	0364	14919																			
		OBS	0300	0904	35101	2721					14919																			
		OBS	0351	0796	35066	2735					14886																			
		OBS	0377	0803	35135	2740					14894																			
		STD	0400	0772	3513	2744			0007225	0446	14886																			
		OBS	0400	0772	35131	2744					14886																			
		OBS	0470	0440	34777	2759					14760																			
		STD	0500	0571	3500	2761			0005563	0510	14821																			
		OBS	0500	0571	35000	2761					14821																			
		OBS	0510	0586	35028	2761					14829																			
		OBS	0575	0569	35035	2764					14833																			
		STD	0600	0533	3497	2763			0005420	0565	14822																			
		OBS	0600	0533	34971	2763					14822																			
		OBS	0660	0457	34953	2771					14801																			
		STD	0700	0458	3496	2772			0004664	0616	14808																			
		OBS	0700	0458	34963	2772					14808																			
		STD	0800	0458	3499	2774			0004571	0662	14825																			
		OBS	0800	0458	34990	2774					14825																			
		STD	0900	0432	3498	2776			0004414	0707	14831																			
		OBS	0900	0432	34982	2776					14831																			
		STD	1000	0431	3500	2777			0004377	0751	14847																			
		OBS	1000	0431	34999	2777					14847																			
		STD	1100	0409	3499	2779			0004273	0794	14854																			
		OBS	1100	0409	34989	2779					14854																			
		STD	1200	0398	3498	2779			0004288	0837	14866																			
		OBS	1200	0398	34981	2779					14866																			
		STD	1300	0388	3497	2780			0004333	0880	14879																			
		OBS	1300	0388	34970	2780					14879																			
		STD	1400	0381	3497	2780			0004331	0923	14893																			
		OBS	1400	0381	34970	2780					14893																			
		STD	1500	0373	3497	2781			0004336	0967	14906																			
		OBS	1500	0373	34967	2781					14906																			

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

WATER		WIND		BARO- METER	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. IMT	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
DT	SD	16	S28		156	144	7	38	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	SIO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
		STD	0000	1548	3589	2657	0014775	0000	15100								
	001	OBS	0000	1548	35889	2657			15100								
		STD	0010	1547	3569	2657	0014785	0015	15101								
		OBS	0010	1547	35889	2657			15101								
	003	OBS	0018	1547	35889	2657			15103								
		STD	0020	1544	3586	2655	0014971	0030	15102								
		OBS	0020	1544	35859	2655			15102								
		STD	0030	1491	3579	2662	0014397	0044	15086								
		OBS	0030	1491	35788	2662			15086								
		OBS	0040	1458	35771	2668			15077								
		STD	0050	1457	3577	2668	0013874	0073	15078								
		OBS	0050	1457	35771	2668			15078								
		STD	0075	1370	3563	2675	0013218	0106	15052								
		OBS	0075	1370	35629	2675			15052								
		OBS	0086	1370	35610	2674			15054								
		OBS	0092	1324	35525	2677			15036								
		STD	0100	1317	3551	2677	0013151	0139	15037								
		OBS	0100	1317	35505	2677			15037								
		OBS	0108	1310	35536	2681			15036								
		STD	0125	1323	3554	2678	0013118	0172	15044								
		OBS	0125	1323	35535	2678			15044								
		OBS	0135	1321	35510	2676			15044								
		OBS	0140	1299	35498	2680			15038								
		STD	0150	1300	3551	2680	0014958	0205	15040								
		OBS	0150	1300	35505	2680			15040								
		OBS	0162	1300	35524	2682			15042								
		OBS	0190	1218	35434	2691			15017								
		STD	0200	1260	3555	2692	0011993	0267	15035								
		OBS	0200	1260	35550	2692			15035								
		STD	0250	1167	3544	2701	0011178	0325	15010								
		OBS	0250	1167	35441	2701			15010								
		STD	0300	1018	3522	2711	0010298	0379	14962								
		OBS	0300	1018	35218	2711			14962								
		STD	0400	0815	3507	2733	0008320	0472	14902								
		OBS	0400	0815	35070	2733			14902								
		OBS	0490	0631	34930	2748			14843								
		STD	0500	0578	3488	2751	0006543	0546	14823								
		OBS	0500	0578	34880	2751			14823								
		OBS	0515	0551	34872	2753			14814								
		OBS	0535	0591	35002	2759			14835								
		OBS	0550	0571	34975	2759			14829								
		OBS	0572	0584	35022	2761			14839								
		STD	0600	0568	3502	2763	0005487	0606	14837								
		OBS	0600	0568	35023	2763			14837								
		STD	0700	0516	3501	2769	0005037	0659	14832								
		OBS	0700	0516	35010	2769			14832								
		STD	0800	0472	3500	2773	0004671	0708	14831								
		OBS	0800	0472	35000	2773			14831								
		STD	0900	0451	3499	2774	0004590	0754	14839								
		OBS	0900	0451	34990	2774			14839								
		STD	1000	0438	3499	2776	0004531	0800	14850								
		OBS	1000	0438	34990	2776			14850								
		STD	1100	0424	3499	2777	0004454	0844	14861								
		OBS	1100	0424	34990	2777			14861								
		STD	1200	0408	3499	2779	0004348	0888	14871								
		OBS	1200	0408	34990	2779			14871								
		STD	1300	0398	3498	2779	0004423	0932	14883								
		OBS	1300	0398	34975	2779			14883								
		STD	1400	0389	3497	2780	0004434	0977	14896								
		OBS	1400	0389	34970	2780			14896								
		STD	1500	0383	3497	2780	0004444	1021	14910								
		OBS	1500	0383	34970	2780			14910								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT			
31	8016	EV	4407 N	04634 W		149	46	05	14	034	1967	9935	3931	15	15	5	2		X1	0	3	0019				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. M1	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB														
						DT	SD	16	S23	163	150	144	7	33												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t °		Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH									
		STD	0000	1561	3586	2651	0015287		0000	15104																
	032	OBS	0000	1561	35857	2651				15104																
		STD	0010	1556	3586	2653	0015189		0015	15104																
		OBS	0010	1556	35860	2653				15104																
		STD	0020	1513	3590	2665	0014041		0030	15092																
	004	OBS	0020	1513	35896	2665				15092																
		STD	0030	1489	3586	2667	0013844		0044	15086																
		OBS	0030	1489	35858	2667				15086																
		STD	0050	1472	3580	2667	0013973		0072	15083																
		OBS	0050	1472	35800	2667				15083																
		STD	0075	1413	3569	2671	0013638		0106	15067																
		OBS	0075	1413	35690	2671				15067																
		STD	0100	1358	3561	2677	0013175		0140	15052																
		OBS	0100	1358	35612	2677				15052																
		STD	0125	1322	3555	2679	0013003		0172	15043																
		OBS	0125	1322	35548	2679				15043																
		STD	0150	1267	3552	2688	0012191		0204	15029																
		OBS	0150	1267	35523	2688				15029																
		OBS	0160	1297	35547	2684				15041																
		OBS	0175	1271	35470	2683				15033																
		OBS	0179	1256	35530	2691				15030																
		OBS	0189	1282	35552	2687				15041																
		STD	0200	1237	3550	2692	0011914		0264	15026																
		OBS	0200	1237	35501	2692				15026																
		STD	0250	1149	3543	2703	0010959		0321	15003																
		OBS	0250	1149	35426	2703				15003																
		OBS	0260	1070	35244	2704				14975																
		STD	0300	0999	3521	2714	0010036		0374	14955																
		OBS	0300	0999	35210	2714				14955																
		OBS	0340	0930	35103	2717				14935																
		OBS	0371	0829	35022	2727				14902																
		STD	0400	0775	3504	2736	0007956		0464	14886																
		OBS	0400	0775	35038	2736				14886																
		OBS	0471	0639	34923	2746				14843																
		OBS	0481	0659	35005	2750				14854																
		STD	0500	0652	3501	2751	0006607		0537	14854																
		OBS	0500	0652	35005	2751				14854																
		STD	0600	0559	3501	2763	0005481		0597	14833																
		OBS	0600	0559	35008	2763				14833																
		STD	0700	0512	3501	2769	0004972		0649	14831																
		OBS	0700	0512	35012	2769				14831																
		STD	0800	0487	3501	2772	0004808		0698	14837																
		OBS	0800	0487	35007	2772				14837																
		STD	0900	0444	3498	2775	0004570		0745	14836																
		OBS	0900	0444	34981	2775				14836																
		STD	1000	0449	3501	2776	0004515		0790	14855																
		OBS	1000	0449	35011	2776				14855																
		STD	1100	0430	3500	2777	0004471		0835	14863																
		OBS	1100	0430	34998	2777				14863																
		STD	1200	0417	3499	2778	0004462		0880	14874																
		OBS	1200	0417	34990	2778				14874																
		STD	1300	0404	3499	2779	0004397		0924	14886																
		OBS	1300	0404	34989	2779				14886																
		STD	1400	0390	3497	2780	0004432		0969	14897																
		OBS	1400	0390	34972	2780				14897																
		STD	1500	0380	3496	2779	0004500		1013	14909																
		OBS	1500	0380	34957	2779				14909																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARKS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- TER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	OIR	HGT	PER		SEA	TYPE	
318016	EV		4359 N	04553 W	149 35	05	14	065	1967		9936	4023	13	19	5	2		X1	03		0020	
		WATER		WIND		BARO- METER		AIR TEMP. °C														
		COLOR	TRANS.	OIR	SPEED	OF	FORCE	DRY	WET	VIS.	NO.	SPECIAL										
		CODE	(MI)		FT		(MB)	BULB	BULB	OB.	DEPTHS	OBSERVATIONS										
DT	SD	19	524	166	167	156	6	25														

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	OIR	SPEED OF FORCE		DRY BULB	WET BULB			
DT	SD	19	S24	166	167	156	6	25	

MESSENGER TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
		STD	0000	1392	3535	2649	0015500	0000	15043								
065		OBS	0000	1392	35348	2649			15043								
		STD	0010	1350	3536	2659	0014609	0015	15031								
		OBS	0010	1350	35360	2659			15031								
		STD	0020	1298	3540	2673	0013312	0029	15016								
003		OBS	0020	1298	35403	2673			15016								
		STD	0030	1279	3537	2674	0013204	0042	15011								
		OBS	0030	1279	35372	2674			15011								
		STD	0050	1269	3536	2675	0013163	0069	15011								
		OBS	0050	1269	35359	2675			15011								
		STD	0075	1282	3542	2677	0013067	0101	15020								
		OBS	0075	1282	35415	2677			15020								
		STD	0100	1298	3547	2678	0013039	0134	15030								
		OBS	0100	1298	35470	2678			15030								
		STD	0125	1295	3549	2680	0012888	0166	15034								
		OBS	0125	1295	35492	2680			15034								
		STD	0150	1293	3549	2681	0012917	0199	15037								
		OBS	0150	1293	35492	2681			15037								
		STD	0200	1204	3530	2683	0012746	0263	15013								
		OBS	0200	1204	35303	2683			15013								
		STD	0250	1093	3528	2702	0011027	0322	14982								
		OBS	0250	1093	35280	2702			14982								
		OBS	0257	1115	35370	2705			14992								
		OBS	0287	0984	35130	2710			14947								
		STD	0300	1030	3524	2710	0010378	0376	14967								
		OBS	0300	1030	35235	2710			14967								
		STD	0400	0762	3494	2730	0008489	0470	14880								
		OBS	0400	0762	34940	2730			14880								
		STD	0500	0658	3501	2750	0006660	0546	14856								
		OBS	0500	0658	35009	2750			14856								
		STD	0600	0587	3501	2760	0005834	0608	14845								
		OBS	0600	0587	35010	2760			14845								
		STD	0700	0516	3499	2767	0005208	0664	14832								
		OBS	0700	0516	34987	2767			14832								
		STD	0800	0463	3498	2773	0004677	0713	14827								
		OBS	0800	0463	34984	2773			14827								
		STD	0900	0447	3497	2773	0004681	0760	14837								
		OBS	0900	0447	34971	2773			14837								
		STD	1000	0429	3497	2775	0004558	0806	14846								
		OBS	1000	0429	34971	2775			14846								
		STD	1100	0425	3497	2776	0004607	0852	14861								
		OBS	1100	0425	34971	2776			14861								
		STD	1200	0404	3497	2778	0004459	0897	14869								
		OBS	1200	0404	34968	2778			14869								
		STD	1300	0395	3497	2779	0004458	0942	14882								
		OBS	1300	0395	34965	2779			14882								
		OBS	1340	0393	34965	2779			14888								

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER	
					10'	1'	MO DAY HR 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			
318016	EV	43515N	04510 W	149	35	05	14 103	1967	9937		4572	15	18	5	3		X2	0 3	0021
WATER					WIND			BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE						DRY BULB	WET BULB									
DT	SD	20	S20	193	156	139	6	90											
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	°C		
		STD	0000	1023	3430	2639	0016484	0000	14903										
	103	OBS	0000	1023	34301	2639			14903										
		STD	0010	0850	3430	2667	0013825	0015	14841										
		OBS	0010	0850	34300	2667			14841										
		STD	0020	0940	3459	2675	0013059	0029	14880										
	003	OBS	0020	0940	34590	2675			14880										
		OBS	0025	0969	34620	2673			14892										
		STD	0030	0958	3463	2675	0013097	0042	14889										
		OBS	0030	0958	34626	2675			14889										
		OBS	0040	0948	34600	2675			14886										
		OBS	0043	0938	34610	2677			14883										
		OBS	0048	0951	34620	2676			14889										
		STD	0050	0939	3462	2678	0012853	0068	14885										
		OBS	0050	0939	34624	2678			14885										
		OBS	0068	0931	34702	2685			14886										
		STD	0075	0915	3472	2689	0011856	0099	14881										
		OBS	0075	0915	34715	2689			14881										
		OBS	0079	0909	34718	2690			14880										
		OBS	0087	0938	34770	2690			14892										
		OBS	0093	0895	34718	2693			14877										
		OBS	0097	0969	35031	2705			14909										
		STD	0100	0965	3503	2705	0010362	0126	14908										
		OBS	0100	0965	35031	2705			14908										
		OBS	0103	0965	35031	2705			14908										
		OBS	0105	1001	35031	2699			14922										
		OBS	0119	0996	35055	2702			14923										
		STD	0125	0955	3499	2704	0010557	0152	14908										
		OBS	0125	0955	34990	2704			14908										
		STD	0150	0653	3455	2715	0009490	0177	14791										
		OBS	0150	0653	34548	2715			14791										
		OBS	0162	0597	34503	2719			14770										
		OBS	0172	0724	34848	2729			14826										
		OBS	0183	0777	34960	2730			14850										
		OBS	0197	0787	34950	2727			14856										
		STD	0200	0762	3488	2725	0008603	0223	14846										
		OBS	0200	0762	34878	2725			14846										
		OBS	0207	0710	34877	2733			14827										
		OBS	0215	0716	34870	2731			14830										
		OBS	0221	0632	34745	2733			14797										
		OBS	0226	0628	34760	2735			14796										
		OBS	0233	0637P	34690	2728P													
		OBS	0240	0575	34697	2737			14776										
		STD	0250	0577	3471	2738	0007438	0263	14779										
		OBS	0250	0577	34713	2738			14779										
		OBS	0253	0584	34718	2737			14782										
		OBS	0256	0553	34721	2741			14770										
		OBS	0267	0545	34740	2744			14769										
		OBS	0276	0570	34747	2741			14781										
		OBS	0285	0560	34759	2743			14778										
		OBS	0290	0563	34761	2743			14780										
		STD	0300	0546	3477	2746	0006713	0298	14775										
		OBS	0300	0546	34768	2746			14775										
		OBS	0308	0547	34772	2746			14777										
		OBS	0312	0526	34775	2749			14769										
		OBS	0322	0520	34785	2750			14768										
		OBS	0328	0550	34820	2749			14782										
		OBS	0331	0530	34840	2753			14775										
		OBS	0348	0544	34860	2753			14784										
		OBS	0370	0525	34883	2757			14780										
		OBS	0387	0532	34898	2758			14786										
		OBS	0396	0523	34920	2761			14784										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INDEX	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318016	EV		4657 N	04744 W		149	67	05	15	053	1967		9938	0179	02	21	3	3		X1	0	3	0022	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	SD	20	S10	179		028	028	7	14									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH				
		STO	0000	0120	3286	2634		0016953		0000		14518												
	053	OBS	0000	0120	32861	2634						14518												
		OBS	0005	0120	32862	2634						14519												
		STO	0010	0115	3286	2634		0016900		0017		14517												
	000	OBS	0010	0115	32864	2634						14517												
		STO	0020	-0039	3287	2643		0016097		0033		14449												
		OBS	0020	-0039	32869	2643						14449												
		STO	0030	-0031	3291	2645		0015842		0049		14455												
		OBS	0030	-0031	32906	2645						14455												
		STO	0050	-0101	3297	2653		0015087		0080		14426												
		OBS	0050	-0101	32970	2653						14426												
		OBS	0065	-0126	33006	2657						14417												
		STO	0075	-0106	3317	2669		0013524		0116		14431												
		OBS	0075	-0106	33170	2669						14431												
		OBS	0080	-0087	33180	2670						14441												
		OBS	0089	-0139	33180	2671						14418												
		STO	0100	-0136	3321	2674		0013102		0149		14421												
		OBS	0100	-0136	33211	2674						14421												
		STO	0125	-0053	3344	2689		0011649		0180		14467												
		OBS	0125	-0053	33438	2689						14467												
		STO	0150	0042	3358	2696		0011026		0209		14517												
		OBS	0150	0042	33580	2696						14517												
		OBS	0165	0042	33575	2696						14520												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318016	EV		4657 N	04730 W		149	67	05	15	065	1967		9939	0220	02	21	3	2		X1	0	3	0023			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
						OT	SO	20	S12		183	028					028	7	15							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C						
		STO	0000	0038	3284	2637		0016689	0000	14480																
	065	OBS	0000	0038	32837	2637				14480																
		STO	0010	0038	3284	2636		0016694	0017	14482																
		OBS	0010	0038	32836	2636				14482																
		STO	0020	0029	3284	2637		0016602	0033	14480																
	000	OBS	0020	0029	32842	2637				14480																
		STO	0030	-0095	3281	2640		0016337	0050	14423																
		OBS	0030	-0095	32811	2640				14423																
		STO	0050	-0130	3299	2656		0014854	0081	14413																
		OBS	0050	-0130	32989	2656				14413																
		STO	0075	-0127	3313	2667		0013765	0117	14420																
		OBS	0075	-0127	33130	2667				14420																
		OBS	0089	-0129	33186	2671				14422																
		OBS	0091	-0107	33190	2671				14433																
		STO	0100	-0123	3324	2675		0012957	0150	14428																
		OBS	0100	-0123	33235	2675				14428																
		STO	0125	-0040	3340	2685		0012033	0181	14473																
		OBS	0125	-0040	33395	2685				14473																
		OBS	0135	-0012	33443	2688				14488																
		OBS	0140	-0030	33419	2687				14480																
		STO	0150	0064	3366	2701		0010545	0210	14528																
		OBS	0150	0064	33660	2701				14528																
		OBS	0174	0115	33870	2715				14558																
		OBS	0195	0276	34451	2749				14640																

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	OBSERVATIONS				TYPE	AMT		
																DIR.	HGT	PER					SEA
318016	EV		4657 N	04714 W	149	67	05	15	075	1967	9940	0713	07	18	3	2		X1	0	3		0024	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. AMT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
						DT	SD	17	S10	183	033	028	7				22						
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	Si O ₄ -Si $\mu g - dl/l$	pH	S C C						
		STD	0000	0072	3284	2635	0016856	0000	14496														
075		OBS	0000	0072	32838	2635			14496														
		STD	0010	0072	3284	2635	0016847	0017	14497														
		OBS	0010	0072	32839	2635			14497														
		STD	0020	0073	3299	2647	0015731	0033	14502														
001		OBS	0020	0073	32986	2647			14502														
		STD	0030	0086	3320	2663	0014171	0048	14512														
		OBS	0030	0064P	3219P	2583P																	
		OBS	0040	0098	33380	2677			14522														
		OBS	0043	0080	33425	2681			14515														
		STD	0050	0091	3369	2702	0010468	0073	14524														
		OBS	0050	0091	33691	2702			14524														
		OBS	0056	0160	33743	2702			14557														
		OBS	0064	0109	33759	2706			14536														
		STD	0075	0132	3377	2706	0010136	0098	14548														
		OBS	0075	0132	33769	2706			14548														
		STD	0100	0150	3390	2715	0009269	0123	14562														
		OBS	0100	0150	33900	2715			14562														
		STD	0125	0159	3407	2728	0008044	0144	14572														
		OBS	0125	0159	34071	2728			14572														
		OBS	0140	0159	34150	2734			14576														
		STD	0150	0208	3423	2737	0007202	0163	14600														
		OBS	0150	0208	34232	2737			14600														
		STD	0200	0291	3448	2750	0006046	0197	14648														
		OBS	0200	0291	34482	2750			14648														
		OBS	0235	0322	34622	2758			14669														
		STD	0250	0352	3469	2761	0005121	0224	14685														
		OBS	0250	0352	34687	2761			14685														
		STD	0300	0433	3490	2769	0004419	0248	14730														
		OBS	0300	0433	34900	2769			14730														
		STD	0400	0419	3491	2772	0004278	0292	14741														
		OBS	0400	0419	34912	2772			14741														
		STD	0500	0402	3493	2775	0004062	0334	14751														
		OBS	0500	0402	34929	2775			14751														
		STD	0600	0389	3493	2777	0003989	0374	14762														
		OBS	0600	0389	34932	2777			14762														
		OBS	0695	0381	34934	2777			14775														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
31B	016	EV	4657 N	04659 W	149	66	05	15	089	1967			9941		1189	11	19	3	2		X1	0	3	0025		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VISC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB															
						DT	SD	19	515	196	039	033	7	25												

MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^2$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	S C
		STD	0000	0056	3282	2634	0016916	0000	14488								
089		OBS	0000	0056	32819	2634			14488								
		STD	0010	0050	3299	2648	0015580	0016	14490								
		OBS	0010	0050	32990	2648			14490								
002		OBS	0014	0129	33046	2648			14527								
		STD	0020	0104	3310	2654	0015017	0032	14517								
		OBS	0020	0104	33103	2654			14517								
		OBS	0029	0040	33232	2668			14491								
		STD	0030	0059	3323	2667	0013795	0046	14500								
		OBS	0030	0059	33230	2667			14500								
		OBS	0043	0050	33450	2685			14501								
		STD	0050	0086	3348	2685	0012081	0072	14519								
		OBS	0050	0086	33475	2685			14519								
		OBS	0059	0031	33609	2699			14498								
		STD	0075	0110	3380	2710	0009728	0099	14539								
		OBS	0075	0110	33804	2710			14539								
		STD	0100	0167	3406	2727	0008169	0121	14572								
		OBS	0100	0167	34061	2727			14572								
		STD	0125	0205	3427	2741	0006881	0140	14595								
		OBS	0125	0205	34270	2741			14595								
		STD	0150	0265	3443	2748	0006169	0157	14628								
		OBS	0150	0265	34431	2748			14628								
		STD	0200	0328	3464	2759	0005215	0185	14666								
		OBS	0200	0328	34638	2759			14666								
		STD	0250	0380	3475	2763	0004908	0210	14698								
		OBS	0250	0380	34753	2763			14698								
		STD	0300	0416	3485	2767	0004630	0234	14723								
		OBS	0300	0416	34847	2767			14723								
		STD	0400	0432	3490	2769	0004534	0280	14747								
		OBS	0400	0432	34897	2769			14747								
		STD	0500	0423	3491	2771	0004475	0325	14759								
		OBS	0500	0423	34905	2771			14759								
		STD	0600	0423	3493	2773	0004397	0369	14776								
		OBS	0600	0423	34929	2773			14776								
		STD	0700	0409	3493	2774	0004327	0413	14787								
		OBS	0700	0409	34930	2774			14787								
		STD	0800	0396	3493	2776	0004278	0456	14798								
		OBS	0800	0396	34929	2776			14798								
		STD	0900	0390	3493	2776	0004277	0499	14812								
		OBS	0900	0390	34932	2776			14812								
		STD	1000	0381	3493	2777	0004260	0542	14825								
		OBS	1000	0381	34932	2777			14825								
		STD	1100	0370	3494	2779	0004156	0584	14837								
		OBS	1100	0370	34940	2779			14837								
		OBS	1149	0369	34942	2779			14845								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDECH	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318016	EV		4657 N	04645 W		149	66	05	15	103	1967		9942		0732	07	19	3	2		X1	0	3	0026		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODES		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB									
						DT	SD	19	515	200	050	044	7	20												

MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	SiO ₄ -Si $\mu g - dl/l$	pH	CTD
		STD	0000	0175	3287	2631	0017233	0000	14542								
103		OBS	0000	0175	32870	2631			14542								
		STD	0010	0065	3321	2665	0013982	0016	14499								
		OBS	0010	0065	33210	2665			14499								
		STD	0020	0000	3339	2683	0012282	0029	14474								
001		OBS	0020	0000	33390	2683			14474								
		STD	0030	0016	3355	2695	0011150	0040	14485								
		OBS	0030	0016	33548	2695			14485								
		STD	0050	0067	3372	2706	0010123	0062	14514								
		OBS	0050	0067	33718	2706			14514								
		OBS	0066	0316P	3475P	2769P											
		STD	0075	0195	3419	2735	0007427	0084	14582								
		OBS	0075	0195	34185	2735			14582								
		STD	0100	0262	3440	2746	0006348	0101	14618								
		OBS	0100	0262	34400	2746			14618								
		STD	0125	0375	3463	2754	0005676	0116	14674								
		OBS	0125	0375	34629	2754			14674								
		STD	0150	0451	3478	2757	0005384	0130	14712								
		OBS	0150	0451	34776	2757			14712								
		OBS	0170	0389	34690	2757			14688								
		STD	0200	0373	3471	2761	0005114	0156	14686								
		OBS	0200	0373	34710	2761			14686								
		STD	0250	0390	3477	2764	0004876	0181	14702								
		OBS	0250	0390	34771	2764			14702								
		STD	0300	0425	3486	2767	0004638	0205	14727								
		OBS	0300	0425	34859	2767			14727								
		OBS	0365	0472	34936	2768			14758								
		STD	0400	0460	3494	2769	0004531	0251	14759								
		OBS	0400	0460	34940	2769			14759								
		STD	0500	0420	3491	2772	0004382	0295	14758								
		OBS	0500	0420	34913	2772			14758								
		STD	0600	0408	3492	2774	0004263	0338	14770								
		OBS	0600	0408	34924	2774			14770								
		STD	0700	0397	3493	2776	0004188	0381	14782								
		OBS	0700	0397	34930	2776			14782								
		OBS	0705	0397	34930	2776			14783								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	

318016	EV	4657 N	04631 W	149	66	05	15	116	1967				9943		0330	03	20	2	2		X1	0	3	0027
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	20	S15	200	051	045	7	34	

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CODE
		STD	0000	0198	3312	2649	0015494	0000	14556								
116		OBS	0000	0198	33120	2649			14556								
		OBS	0005	0189	33270	2662			14555								
		STD	0010	0282	3349	2672	0013337	0014	14599								
000		OBS	0010	0282	33490	2672			14599								
		OBS	0015	0360	33810	2690			14638								
		STD	0020	0398	3383	2688	0011856	0027	14655								
		OBS	0020	0398	33825	2688			14655								
		OBS	0025	0403	33815	2686			14658								
		STD	0030	0395	3381	2687	0011948	0039	14655								
		OBS	0030	0395	33810	2687			14655								
		OBS	0034	0380	33790	2687			14649								
		OBS	0040	0528	34010	2688			14715								
		OBS	0046	0438	34110	2706			14680								
		STD	0050	0460	3414	2706	0010143	0061	14690								
		OBS	0050	0460	34140	2706			14690								
		OBS	0055	0440	34210	2714			14684								
		OBS	0057	0312	33930	2704			14626								
		OBS	0065	0492	34310	2716			14708								
		STD	0075	0340	3433	2734	0007548	0083	14646								
		OBS	0075	0340	34330	2734			14646								
		OBS	0085	0400	34490	2740			14676								
		OBS	0095	0445	34510	2737			14696								
		STD	0100	0440	3455	2740	0006945	0101	14696								
		OBS	0100	0440	34545	2740			14696								
		OBS	0105	0431	34545	2741			14693								
		OBS	0107	0444	34585	2743			14699								
		STD	0125	0449	3458	2742	0006804	0118	14704								
		OBS	0125	0449	34580	2742			14704								
		OBS	0135	0413	34600	2748			14691								
		OBS	0140	0418	34640	2750			14694								
		STD	0150	0420	3469	2754	0005736	0134	14697								
		OBS	0150	0420	34685	2754			14697								
		OBS	0153	0443	34702	2752			14708								
		OBS	0175	0457	34778	2757			14718								
		OBS	0192	0459	34770	2756			14722								
		OBS	0195	0465	34820	2759			14725								
		STD	0200	0468	3481	2758	0005371	0162	14727								
		OBS	0200	0468	34810	2758			14727								
		OBS	0205	0445	34840	2763			14719								
		OBS	0211	0465	34850	2762			14728								
		OBS	0225	0459	34830	2761			14728								
		STD	0250	0438	3486	2765	0004728	0187	14724								
		OBS	0250	0438	34859	2765			14724								
		STD	0300	0440	3489	2768	0004571	0210	14733								
		OBS	0300	0440	34890	2768			14733								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH MDCR	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8016	EV	4657 N	04610 W		149	66	05	15	133	1967		9944	0292	03	20	12	2		X1	0	3	0028
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
OT	SO	20	S06	200	090	080	7	31															
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE						
		STD	0000	0541	3376	2667	0013823	0000	14710														
133		OBS	0000	0541	33760	2667			14710														
		STD	0010	0500	3378	2673	0013231	0014	14696														
		OBS	0010	0500	33780	2673			14696														
000		OBS	0011	0491	33781	2674			14692														
		OBS	0014	0559	34100	2691			14725														
		OBS	0017	0558	34103	2692			14725														
		STD	0020	0564	3414	2694	0011271	0026	14728														
		OBS	0020	0564	34139	2694			14728														
		OBS	0025	0582	34200	2697			14737														
		STD	0030	0554	3421	2701	0010636	0037	14727														
		OBS	0030	0554	34210	2701			14727														
		OBS	0033	0546	34210	2702			14724														
		OBS	0037	0548	34258	2705			14726														
		OBS	0040	0548	34260	2705			14727														
		OBS	0044	0548	34260	2705			14727														
		STD	0050	0532	3431	2711	0009659	0057	14722														
		OBS	0050	0532	34310	2711			14722														
		OBS	0055	0490	34373	2721			14707														
		OBS	0070	0479	34432	2727			14705														
		STD	0075	0468	3445	2730	0007922	0079	14702														
		OBS	0075	0468	34451	2730			14702														
		STD	0100	0432	3449	2737	0007274	0098	14692														
		OBS	0100	0432	34490	2737			14692														
		OBS	0118	0418	34577	2745			14690														
		STD	0125	0434	3460	2745	0006532	0115	14698														
		OBS	0125	0434	34595	2745			14698														
		OBS	0133	0435	34665	2750			14701														
		OBS	0141	0512	34760	2749			14735														
		OBS	0145	0503	34719	2747			14732														
		STD	0150	0458	3469	2750	0006104	0131	14713														
		OBS	0150	0458	34690	2750			14713														
		OBS	0157	0467	34737	2753			14719														
		OBS	0170	0467	34740	2753			14721														
		OBS	0175	0461	34720	2752			14719														
		OBS	0182	0431	34732	2756			14708														
		STD	0200	0431	3478	2760	0005229	0159	14711														
		OBS	0200	0431	34775	2760			14711														
		OBS	0225	0439	34819	2762			14720														
		STD	0250	0437	3485	2765	0004777	0184	14723														
		OBS	0250	0437	34851	2765			14723														
		OBS	0275	0434	34877	2767			14726														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN/OUT	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
318016	EV	4721	N	04610	W	149	76	05	15	168	1967	9945	0357	03	25	2	3		X1	0	3	0029

318016	EV		4721 N	04610 W		149	76	05	15	168	1967		9945		0357	03	25	2	3		X1	0	3	0029
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

DT	SD	23	S02	193	056	050	7	28	
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MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S °C
		STD	0000	0309	3324	2650	0015446	0000	14606								
168		OBS	0000	0309	33240	2650			14606								
		STD	0010	0156	3356	2688	0011846	0014	14545								
		OBS	0010	0156	33563	2688			14545								
		STD	0020	0428	3389	2690	0011663	0025	14669								
000		OBS	0025	0448	33920	2690			14669								
		STD	0030	0390	3387	2692	0011448	0037	14654								
		OBS	0030	0390	33870	2692			14654								
		OBS	0037	0186	33738	2699			14565								
		STD	0050	0495	3421	2708	0009995	0058	14706								
		OBS	0050	0495	34210	2708			14706								
		OBS	0057	0360	34055	2710			14648								
		OBS	0067	0351	34030	2709			14646								
		STD	0075	0499	3428	2713	0009542	0083	14712								
		OBS	0075	0499	34280	2713			14712								
		OBS	0080	0410	34257	2721			14676								
		OBS	0087	0340	34180	2722			14646								
		OBS	0090	0393P	3450P	2742P											
		STD	0100	0226	3413	2728	0008093	0105	14599								
		OBS	0100	0226	34130	2728			14599								
		OBS	0103	0212	34180	2733			14594								
		OBS	0116	0279	34275	2735			14626								
		OBS	0118	0260	34283	2737			14618								
		STD	0125	0285	3431	2737	0007239	0124	14631								
		OBS	0125	0285	34310	2737			14631								
		OBS	0135	0425	34562	2743			14695								
		STD	0150	0375	3451	2744	0006591	0141	14676								
		OBS	0150	0375	34510	2744			14676								
		OBS	0160	0285	34450	2748			14638								
		OBS	0170	0325	34543	2752			14659								
		OBS	0175	0396	34655	2754			14691								
		OBS	0187	0436	34743	2757			14711								
		STD	0200	0440	3476	2757	0005438	0171	14715								
		OBS	0200	0440	34760	2757			14715								
		STD	0250	0441	3486	2765	0004761	0197	14725								
		OBS	0250	0441	34859	2765			14725								
		STD	0300	0433	3488	2768	0004554	0220	14730								
		OBS	0300	0433	34882	2768			14730								
		OBS	0320	0425	34890	2769			14730								
		OBS	0340	0423	34897	2770			14733								

REFERENCE	SHIP	LATITUDE	LONGITUDE	MARS DEN	STATION TIME					YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD	NODC		
					10"	1"	MO	DAY	HR.1/10		CRUISE	STATION			TO	DEPTH	DIR	HGT				PER	SEA
CTRY	ID.										NO.	NUMBER	BDTOM	OF	S'AMPL'S							NUMBER	
CODE	NO.																						
318016	EV	4743 N	04605 W		149	76	05	15	190	1967	9946		0662	06	26	2	3		X0	0 3		0030	
					WATER		WIND		BARO-		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
					COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET												
					CODE	(m)		OR FORCE	(mba)	BULB	BULB												
					DT	SD	23	S08	193	056	044	7	22										
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S °/.	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-N	NO ₃ -N	NO ₃ -N	Si D ₄ -Si	pH							
TIME	NO.	TYPE					ANOMALY-Δ10 ³	DYN. M. X 10 ³	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l								
HR 1/10																							
		STD	0000	0261	3312	2644	0015940	0000	14584														
190		OBS	0000	0261	33123	2644			14584														
		OBS	0005	0262	33123	2644			14585														
001		OBS	0007	0201	33312	2664			14561														
		STD	0010	0260	3410	2722	0008562	0012	14598														
		OBS	0010	0260	34098	2722			14598														
		STD	0020	0273	3429	2736	0007223	0020	14608														
		OBS	0020	0205P	3349P	2678P																	
		STD	0030	0285	3441	2745	0006424	0027	14617														
		OBS	0030	0285	34410	2745			14617														
		OBS	0040	0297	34461	2748			14624														
		OBS	0043	0310	34411	2743			14629														
		OBS	0047	0301	34526	2753			14628														
		STD	0050	0317	3447	2747	0006250	0040	14634														
		OBS	0050	0317	34472	2747			14634														
		OBS	0065	0305	34478	2749			14632														
		STD	0075	0302	3450	2751	0005908	0055	14633														
		OBS	0075	0302	34502	2751			14633														
		STD	0100	0300	3458	2757	0005305	0069	14637														
		OBS	0100	0300	34582	2757			14637														
		STD	0125	0325	3461	2757	0005317	0082	14652														
		OBS	0125	0325	34613	2757			14652														
		STD	0150	0343	3467	2760	0005086	0095	14665														
		OBS	0150	0343	34669	2760			14665														
		STD	0200	0351	3471	2763	0004904	0120	14677														
		OBS	0200	0351	34709	2763			14677														
		STD	0250	0371	3473	2762	0004981	0145	14694														
		OBS	0250	0371	34731	2762			14694														
		STD	0300	0392	3480	2766	0004741	0169	14712														
		OBS	0300	0392	34798	2766			14712														
		STD	0400	0412	3486	2769	0004566	0216	14738														
		OBS	0400	0412	34863	2769			14738														
		STD	0500	0428	3490	2770	0004562	0261	14761														
		OBS	0500	0428	34901	2770			14761														
		STD	0600	0420	3492	2772	0004415	0306	14775														
		OBS	0600	0420	34922	2772			14775														
		OBS	0650	0420	34922	2772			14783														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	OBSERVATIONS				TYPE	AMT					
												10°			1°			DIR		HGT	PER	
318016	EV		4803 N	04603 W		149	86	05	15	209	1967	9947	0880	09	22	2	2	X0	013		0031	
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IM1	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
		DT	SD	23	S15	193	056	044	7	28												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH						
209		STD	0000	0409	3398	2699	0010809	0000	14659													
		OBS	0000	0409	33976	2699			14659													
		STD	0010	0367	3395	2701	0010611	0011	14642													
001		OBS	0010	0367	33950	2701			14642													
		STD	0020	0264	3417	2728	0008025	0020	14603													
		OBS	0020	0264	34174	2728			14603													
		OBS	0021	0252	34169	2729			14597													
		STD	0030	0269	3427	2735	0007347	0028	14608													
		OBS	0030	0269	34270	2735			14608													
		OBS	0037	0265	34370	2744			14609													
		OBS	0046	0313	34400	2742			14631													
		STD	0050	0293	3443	2746	0006325	0041	14624													
		OBS	0050	0293	34434	2746			14624													
		OBS	0057	0289	34470	2749			14624													
		STD	0075	0326	3453	2751	0005913	0057	14643													
		OBS	0075	0326	34530	2751			14643													
		STD	0100	0321	3459	2756	0005435	0071	14646													
		OBS	0100	0321	34590	2756			14646													
		STD	0125	0344	3465	2759	0005203	0084	14661													
		OBS	0125	0344	34652	2759			14661													
		STD	0150	0356	3469	2760	0005091	0097	14670													
		OBS	0150	0356	34685	2760			14670													
		STD	0200	0387	3478	2765	0004716	0122	14693													
		OBS	0200	0387	34782	2765			14693													
		STD	0250	0413	3483	2766	0004653	0145	14713													
		OBS	0250	0413	34833	2766			14713													
		STD	0300	0399	3483	2767	0004606	0168	14715													
		OBS	0300	0399	34826	2767			14715													
		OBS	0325	0415	34858	2768			14727													
		OBS	0368	0404	34872	2770			14729													
		OBS	0372	0414	34875	2769			14734													
		STD	0400	0410	3486	2769	0004574	0214	14737													
		OBS	0400	0410	34859	2769			14737													
		OBS	0450	0394	34846	2769			14738													
		STD	0500	0406	3486	2769	0004620	0260	14752													
		OBS	0500	0406	34860	2769			14752													
		OBS	0530	0390	34852	2770			14750													
		STD	0600	0418	3491	2772	0004489	0306	14774													
		OBS	0600	0418	34909	2772			14774													
		OBS	0630	0423	34909	2771			14781													
		STD	0700	0411	3491	2772	0004506	0351	14788													
		OBS	0700	0411	34909	2772			14788													
		STD	0800	0400	3491	2774	0004450	0395	14800													
		OBS	0800	0400	34912	2774			14800													
		STD	0900	0392	3491	2774	0004493	0440	14813													
		OBS	0900	0392	34906	2774			14813													

REFERENCE		SHIP CODE	LATITUDE " 10	LONGITUDE " 10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NO. OF STATION NUMBER	
CITY CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT.	PER.		SEA	TYPE		AMT.
318016	EV		4824 N	04600 W	149	86	05	15	230	1967		9948	1170	11	23	2	2		X0	0	3		0032
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
				COLOR CODE		TRANS. (m)		OIL SPEED OR FORCE		DRY BULB						WET BULB							
				DT		SD		23		515		207		033		022		7		21			
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
		STD	0000	0337	3381	2692	0011386	0000	14626														
	230	OBS	0000	0337	33810	2692			14626														
		OBS	0008	0338	33845	2695			14628														
		STD	0010	0420	3449	2738	0007062	0009	14672														
	002	OBS	0010	0420	34490	2738			14672														
		STD	0020	0425	3461	2747	0006258	0016	14677														
		OBS	0020	0425	34605	2747			14677														
		STD	0030	0422	3465	2751	0005884	0022	14678														
		OBS	0030	0422	34652	2751			14678														
		STD	0050	0412	3465	2752	0005803	0034	14677														
		OBS	0050	0412	34652	2752			14677														
		STD	0075	0377	3466	2756	0005418	0048	14667														
		OBS	0075	0377	34660	2756			14667														
		STD	0100	0357	3470	2761	0004968	0061	14663														
		OBS	0100	0357	34697	2761			14663														
		STD	0125	0363	3477	2766	0004499	0072	14670														
		OBS	0125	0363	34770	2766			14670														
		STD	0150	0380	3482	2768	0004351	0084	14682														
		OBS	0150	0380	34815	2768			14682														
		STD	0200	0379	3483	2769	0004297	0105	14690														
		OBS	0200	0379	34827	2769			14690														
		STD	0250	0376	3483	2770	0004283	0127	14697														
		OBS	0250	0376	34831	2770			14697														
		STD	0300	0381	3484	2770	0004290	0148	14708														
		OBS	0300	0381	34843	2770			14708														
		STD	0400	0399	3488	2771	0004283	0191	14733														
		OBS	0400	0399	34882	2771			14733														
		STD	0500	0408	3490	2772	0004314	0234	14753														
		OBS	0500	0408	34904	2772			14753														
		STD	0600	0406	3492	2774	0004270	0277	14769														
		OBS	0600	0406	34920	2774			14769														
		STD	0700	0398	3492	2775	0004266	0320	14782														
		OBS	0700	0398	34921	2775			14782														
		STD	0800	0389	3492	2776	0004241	0362	14795														
		OBS	0800	0389	34923	2776			14795														
		STD	0900	0381	3492	2777	0004230	0404	14809														
		OBS	0900	0381	34924	2777			14809														
		STD	1000	0374	3493	2777	0004228	0447	14822														
		OBS	1000	0374	34925	2777			14822														
		STD	1100	0369	3494	2779	0004144	0489	14837														
		OBS	1100	0369	34940	2779			14837														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10'	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318016		EV	4840 N	04557 W	149	85	05	16	008	1967		9949	1737	15	24	2	3		X0	0	3	0033	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	22	516	203	050	039	7	23									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S						
		STD	0000	0475	3462	2743	0006624	0000	14695														
	008	OBS	0000	0475	34623	2743			14695														
		STD	0010	0468	3462	2743	0006591	0007	14694														
		OBS	0010	0468	34619	2743			14694														
		STD	0020	0460	3462	2744	0006509	0013	14692														
	003	OBS	0020	0460	34620	2744			14692														
		STD	0030	0426	3465	2750	0005948	0019	14680														
		OBS	0030	0426	34649	2750			14680														
		STD	0050	0408	3467	2754	0005642	0031	14676														
		OBS	0050	0408	34668	2754			14676														
		STD	0075	0392	3469	2757	0005348	0045	14673														
		OBS	0075	0392	34689	2757			14673														
		STD	0100	0381	3474	2762	0004901	0058	14674														
		OBS	0100	0381	34737	2762			14674														
		STD	0125	0393	3480	2766	0004572	0069	14684														
		STD	0150	0399	3484	2768	0004341	0081	14691														
		OBS	0150	0399	34842	2768			14691														
		STD	0200	0393	3485	2769	0004283	0102	14697														
		OBS	0200	0393	34848	2769			14697														
		STD	0250	0398	3488	2771	0004181	0123	14707														
		OBS	0250	0398	34875	2771			14707														
		STD	0300	0398	3487	2771	0004236	0144	14715														
		OBS	0300	0398	34874	2771			14715														
		STD	0400	0384	3488	2773	0004167	0186	14726														
		OBS	0400	0384	34876	2773			14726														
		STD	0500	0377	3488	2774	0004161	0228	14740														
		OBS	0500	0377	34879	2774			14740														
		STD	0600	0385	3490	2774	0004175	0270	14760														
		OBS	0600	0385	34901	2774			14760														
		STD	0700	0393	3492	2775	0004217	0312	14780														
		OBS	0700	0393	34920	2775			14780														
		STD	0800	0388	3492	2776	0004222	0354	14795														
		OBS	0800	0388	34924	2776			14795														
		STD	0900	0381	3493	2777	0004223	0396	14809														
		OBS	0900	0381	34925	2777			14809														
		STD	1000	0372	3493	2778	0004205	0438	14821														
		OBS	1000	0372	34925	2778			14821														
		STD	1100	0370	3494	2779	0004186	0480	14837														
		OBS	1100	0370	34936	2779			14837														
		STD	1200	0366	3494	2779	0004222	0522	14853														
		OBS	1200	0366	34936	2779			14853														
		STD	1300	0362	3495	2781	0004154	0564	14868														
		OBS	1300	0362	34950	2781			14868														
		STD	1400	0357	3495	2781	0004173	0606	14883														
		OBS	1400	0357	34950	2781			14883														
		STD	1500	0351	3495	2782	0004156	0647	14897														
		OBS	1500	0351	34953	2782			14897														

REFERENCE CRUISE NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO.	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318016	EV	4740 N	047225W		149	77	05	17	138	1967	9950	0564	05	24	9	2		X2	0	3	0034
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)		DRY BULB	WET BULB												
		DT	50	24	S30	078	028	028	6	26											
MESSENGER TIME HR 1/10	CASST OF NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		Δ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH			CO ₂	
		STD	0000	0153	3347	2680	0012569		0000	14541											
138		OBS	0000	0153	33465	2680				14541											
		OBS	0006	0166	33555	2686				14549											
		STD	0010	0145	3367	2697	0010961		0012	14542											
001		OBS	0010	0145	33670	2697				14542											
		STD	0020	0113	3372	2703	0010379		0022	14530											
		OBS	0020	0113	33720	2703				14530											
		OBS	0027	0110	33768	2707				14530											
		STD	0030	0119	3384	2712	0009506		0032	14536											
		OBS	0030	0119	33840	2712				14536											
		OBS	0035	0136	33852	2712				14544											
		OBS	0040	0149	33951	2719				14552											
		STD	0050	0162	3401	2723	0008476		0050	14561											
		OBS	0050	0162	34014	2723				14561											
		OBS	0069	0276	34240	2732				14617											
		OBS	0070	0250	34231	2734				14606											
		STD	0075	0259	3427	2736	0007290		0070	14611											
		OBS	0083	0261	34317	2740				14614											
		OBS	0092	0246	34360	2744				14609											
		STD	0100	0261	3436	2743	0006634		0087	14617											
		OBS	0100	0261	34361	2743				14617											
		OBS	0120	0283	34445	2748				14631											
		STD	0125	0283	3446	2749	0006131		0103	14632											
		STD	0150	0285	3450	2752	0005801		0118	14638											
		OBS	0150	0285	34503	2752				14638											
		OBS	0170	0342	34632	2757				14667											
		STD	0200	0358	3467	2759	0005265		0146	14679											
		OBS	0200	0358	34670	2759				14679											
		STD	0250	0410	3491	2773	0004045		0169	14713											
		OBS	0250	0410	34910	2773				14713											
		OBS	0260	0431	34910	2770				14723											
		STD	0300	0424	3491	2771	0004246		0190	14727											
		OBS	0300	0424	34910	2771				14727											
		OBS	0350	0410	34910	2773				14729											
		STD	0400	0399	3492	2774	0004014		0231	14733											
		OBS	0400	0399	34918	2774				14733											
		OBS	0450	0388	34918	2776				14737											
		STD	0500	0386	3492	2776	0003960		0271	14744											
		OBS	0500	0386	34919	2776				14744											
		OBS	0540	0389	34920	2776				14752											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CERY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318016	EV		4740 N	047255W	149	77	05 17 147	1967		9951		0274	03	74	0	2		X2	0	3		0035
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
OT	SD	24	530	085	028	028	6	21														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S C C					
		STD	0000	0195	3352	2681	0012439	0000	14560													
147		OBS	0000	0195	33520	2681			14560													
		STD	0010	0193	3352	2681	0012428	0012	14561													
		OBS	0010	0193	33520	2681			14561													
		STD	0020	0170	3353	2684	0012171	0025	14553													
001		OBS	0020	0170	33533	2684			14553													
		OBS	0021	0158	33610	2691			14548													
		OBS	0025	0191	33880	2710			14567													
		OBS	0027	0178	33949	2717			14563													
		STD	0030	0180	3397	2718	0008930	0035	14565													
		OBS	0030	0180	33970	2718			14565													
		OBS	0040	0218	34061	2723			14584													
		OBS	0047	0191	34070	2726			14574													
		STD	0050	0197	3411	2728	0008000	0052	14577													
		OBS	0050	0197	34110	2728			14577													
		STD	0075	0246	3428	2738	0007107	0071	14605													
		OBS	0075	0246	34280	2738			14605													
		OBS	0080	0241	34290	2739			14604													
		OBS	0085	0268	34340	2741			14617													
		OBS	0090	0260	34335	2741			14615													
		STD	0100	0271	3441	2746	0006356	0088	14622													
		OBS	0100	0271	34409	2746			14622													
		STD	0125	0296	3449	2750	0005980	0103	14638													
		OBS	0125	0296	34490	2750			14638													
		OBS	0135	0299	34520	2752			14641													
		STD	0150	0339	3463	2757	0005371	0118	14662													
		OBS	0150	0339	34626	2757			14662													
		STD	0200	0371	3471	2761	0005094	0144	14685													
		OBS	0200	0371	34710	2761			14685													
		STD	0250	0431	3490	2769	0004383	0167	14721													
		OBS	0250	0431	34895	2769			14721													
		OBS	0275	0431	34909	2770			14726													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT NODE	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
318016	EV					4738 N	047255W	149	77		05	17			151	1967	9952		0405	04		74	0
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
		DT	SD	24	S30	085	033	033	6					25									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CLOUD						
		STD	0000	0201	3348	2678	0012755	0000	14562														
	151	OBS	0000	0201	33484	2678			14562														
		STD	0010	0201	3348	2678	0012758	0013	14564														
		OBS	0010	0201	33484	2678			14564														
		STD	0020	0198	3378	2702	0010496	0024	14568														
	001	OBS	0020	0198	33780	2702			14568														
		OBS	0025	0195	34000	2720			14571														
		OBS	0026	0205	34071	2725			14576														
		STD	0030	0210	3409	2726	0008248	0034	14580														
		OBS	0030	0210	34089	2726			14580														
		OBS	0037	0208	34112	2728			14580														
		OBS	0040	0192	34117	2729			14574														
		STD	0050	0220	3421	2735	0007418	0049	14589														
		OBS	0050	0220	34210	2735			14589														
		OBS	0051	0231	34213	2734			14594														
		OBS	0060	0231	34222	2735			14595														
		OBS	0066	0264	34290	2737			14612														
		OBS	0072	0263	34300	2738			14612														
		STD	0075	0245	3429	2739	0007024	0067	14605														
		OBS	0075	0245	34290	2739			14605														
		OBS	0090	0248	34335	2742			14609														
		STD	0100	0279	3441	2746	0006417	0084	14625														
		OBS	0100	0279	34410	2746			14625														
		STD	0125	0282	3451	2753	0005706	0099	14632														
		OBS	0125	0282	34510	2753			14632														
		OBS	0140	0308	34552	2754			14646														
		OBS	0145	0334	34570	2753			14659														
		STD	0150	0335	3460	2755	0005528	0113	14660														
		OBS	0150	0335	34600	2755			14660														
		OBS	0170	0331	34610	2757			14662														
		STD	0200	0377	3474	2762	0004930	0140	14688														
		OBS	0200	0377	34740	2762			14688														
		STD	0250	0404	3487	2770	0004288	0163	14710														
		OBS	0250	0404	34869	2770			14710														
		STD	0300	0406	3490	2772	0004104	0184	14719														
		OBS	0300	0406	34903	2772			14719														
		STD	0400	0399	3493	2775	0003962	0224	14733														
		OBS	0400	0399	34925	2775			14733														

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ : D DY : M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CO
157		STD	0000	0149	3336	2672	0013340	0000	14538								
		OBS	0000	0149	33360	2672			14538								
		OBS	0005	0140	33356	2672			14538								
001		STD	0010	0124	3335	2673	0013266	0013	14528								
		OBS	0010	0124	33349	2673			14528								
		OBS	0016	0026	33330	2677			14484								
		OBS	0018	0045	33449	2685			14495								
		STD	0020	0035	3345	2686	0012002	0026	14491								
		OBS	0020	0035	33449	2686			14491								
		OBS	0025	0026	33471	2688			14488								
		STD	0030	0080	3363	2698	0010875	0037	14515								
		OBS	0030	0080	33629	2698			14515								
		OBS	0035	0099	33648	2698			14525								
		OBS	0040	0084	33672	2701			14519								
		OBS	0045	0106	33749	2706			14531								
		STD	0050	0110	3381	2711	0009672	0058	14535								
		OBS	0050	0110	33811	2711			14535								
		STD	0075	0195	3412	2729	0007919	0080	14581								
		OBS	0075	0195	34120	2729			14581								
		OBS	0082	0239	34150	2728			14602								
		OBS	0089	0289	34230	2730			14626								
		STD	0100	0249	3427	2737	0007206	0099	14611								
		OBS	0100	0249	34272	2737			14611								
		OBS	0105	0231	34275	2739			14604								
		OBS	0110	0231	34300	2741			14605								
		STD	0125	0261	3438	2745	0006505	0116	14621								
		OBS	0125	0261	34380	2745			14621								
		STD	0150	0289	3447	2749	0006085	0132	14639								
		OBS	0150	0289	34470	2749			14639								
		OBS	0175	0319	34568	2754			14657								
		STD	0200	0390	3473	2760	0005137	0160	14694								
		OBS	0200	0390	34730	2760			14694								
		OBS	0225	0425	34810	2763			14714								
		STD	0250	0419	3480	2763	0004964	0185	14715								
		OBS	0250	0419	34800	2763			14715								
		OBS	0265	0401	34840	2768			14710								
		STD	0300	0438	3491	2770	0004399	0208	14733								
		OBS	0300	0438	34910	2770			14733								
		STD	0400	0413	3491	2772	0004234	0252	14739								
		OBS	0400	0413	34909	2772			14739								
		STD	0500	0396	3491	2774	0004129	0293	14748								
		OBS	0500	0396	34911	2774			14748								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta$ DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S
		STD	0000	0567	3259	2571											
184		OBS	0000	0567	32590	2571		0022887	0000	14706							
		OBS	0001	0531	32612	2577				14706							
		STD	0010	0490	3262	2582				14691							
000		OBS	0010	0490	32620	2582	0021835	0022		14676							
		OBS	0015	0275	32600	2602				14585							
		STD	0020	0240	3290	2628				14575							
		OBS	0020	0240	32902	2628	0017459	0042		14575							
		OBS	0026	0055	33029	2651				14495							
		OBS	0028	0091	33048	2651				14512							
		STD	0030	0076	3311	2656				14506							
		OBS	0030	0076	33110	2656	0014802	0058		14506							
		OBS	0032	0119	33248	2665				14528							
		STD	0050	0146	3327	2665				14543							
		OBS	0050	0146	33269	2665	0014019	0087		14543							

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH FOOT	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT		
31B016	EV		4442 N	04900 W		149	49	05	20	198	1967		9955		0384	03	24	1	2		X2	0	3		0039
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (M)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
						DT		SD	17	S10	315	078	072	6	24										
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Delta \rho$ DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - \sigma_t/l$	TOTAL-P $\mu g - \sigma_t/l$	ND ₂ -N $\mu g - \sigma_t/l$	ND ₃ -N $\mu g - \sigma_t/l$	SiO ₄ -Si $\mu g - \sigma_t/l$	pH	S							
		STD	0000	0350	3285	2615	0018746		0000	14618															
198		OBS	0000	0350	32850	2615				14618															
		OBS	0003	0272	32825	2620				14585															
		STD	0010	0171	3283	2628	0017489		0018	14542															
000		OBS	0010	0171	32833	2628				14542															
		STD	0020	0035	3290	2642	0016204		0035	14483															
		OBS	0020	0035	32898	2642				14483															
		STD	0030	-0062	3301	2655	0014964		0051	14442															
		OBS	0030	-0062	33005	2655				14442															
		OBS	0038	-0052	33039	2657				14448															
		STD	0050	-0052	3304	2657	0014725		0080	14450															
		OBS	0050	-0052	33040	2657				14450															
		OBS	0057	-0053	33065	2659				14451															
		OBS	0064	-0072	33102	2663				14444															
		STD	0075	-0078	3311	2664	0014080		0116	14443															
		OBS	0075	-0078	33110	2664				14443															
		STD	0100	-0084	3314	2666	0013831		0151	14445															
		OBS	0100	-0084	33138	2666				14445															
		STD	0125	-0083	3315	2667	0013715		0186	14449															
		OBS	0125	-0083	33152	2667				14449															
		STD	0150	-0083	3318	2669	0013503		0420	14454															
		OBS	0150	-0083	33178	2669				14454															
		OBS	0163	-0072	33260	2676				14462															
		OBS	0187	-0069	33244	2674				14468															
		OBS	0196	-0025	33430	2687				14492															
		STD	0200	-0019	3343	2687	0011831		0283	14495															
		OBS	0200	-0019	33431	2687				14495															
		STD	0250	0150	3390	2715	0009296		0336	14587															
		OBS	0250	0150	33901	2715				14587															
		OBS	0267	0280	34230	2731				14651															
		OBS	0272	0268P	3407P	2719P																			
		OBS	0281	0385P	3445P	2739P																			
		OBS	0292	0318P	3413P	2720P																			
		STD	0300	0338	3440	2740	0007144		0377	14684															
		OBS	0300	0338	34404	2740				14684															
		OBS	0325	0348	34491	2746				14693															

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARSden SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318016	EV		4440 N	04853 W	149	48	05	20	204	1967		9956		0814	07	24	1	2		X2	0	3	0040
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB											
					DT	SD	14	S06	308	078	061	6	30										

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	SEC
		STD	0000	0300	3285	2619	0018319	0000	14597								
204		OBS	0000	0300	32850	2619			14597								
		STD	0010	0165	3286	2631	0017244	0018	14539								
		OBS	0010	0165	32860	2631			14539								
		STD	0020	0077	3288	2638	0016576	0035	14502								
001		OBS	0020	0077	32878	2638			14502								
		STD	0030	0060	3293	2643	0016094	0051	14497								
		OBS	0030	0060	32929	2643			14497								
		OBS	0040	-0076	33000	2655			14437								
		STD	0050	-0131	3304	2660	0014476	0082	14413								
		OBS	0050	-0131	33038	2660			14413								
		OBS	0065	-0133	33140	2668			14416								
		OBS	0074	-0092	33163	2668			14437								
		STD	0075	-0100	3318	2670	0013467	0117	14434								
		OBS	0075	-0100	33180	2670			14434								
		STD	0100	-0097	3322	2673	0013165	0150	14440								
		OBS	0100	-0097	33219	2673			14440								
		STD	0125	-0055	3336	2683	0012244	0182	14465								
		OBS	0125	-0055	33359	2683			14465								
		STD	0150	-0034	3341	2686	0011936	0212	14480								
		OBS	0150	-0034	33410	2686			14480								
		STD	0200	0104	3372	2704	0010347	0268	14555								
		OBS	0200	0104	33719	2704			14555								
		OBS	0201	0089	33680	2701			14548								
		OBS	0213	0090	33728	2705			14551								
		OBS	0245	0356	34290	2729			14681								
		STD	0250	0342	3425	2727	0008308	0314	14675								
		OBS	0250	0342	34249	2727			14675								
		OBS	0259	0284	34195	2728			14651								
		STD	0300	0463	3463	2744	0006806	0352	14739								
		OBS	0300	0463	34625	2744			14739								
		OBS	0310	0493	34710	2748			14754								
		OBS	0313	0423	34610	2747			14725								
		OBS	0340	0388	34625	2752			14714								
		OBS	0361	0460	34800	2758			14750								
		OBS	0381	0389	34710	2759			14723								
		STD	0400	0426	3480	2762	0005191	0412	14743								
		OBS	0400	0426	34800	2762			14743								
		OBS	0470	0464	34920	2767			14772								
		STD	0500	0460	3493	2769	0004730	0462	14775								
		OBS	0500	0460	34928	2769			14775								
		STD	0600	0434	3493	2772	0004518	0508	14781								
		OBS	0600	0434	34930	2772			14781								
		STD	0700	0421	3493	2773	0004467	0553	14792								
		OBS	0700	0421	34930	2773			14792								
		OBS	0740	0418	34930	2773			14797								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS INDIC	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MD	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318016	EV		4439 N	04843 W		149	48	05	20	213	1967	9957	1737	15	24	1	2		X2	0	3	0041
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	mb		DRY BULB	WET BULB	VIS. CODE								
						OT	SO	16	S10	308		072	061	6		35						

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{ol/l}$	TOTAL-P $\mu g - \text{ol/l}$	NO ₂ -N $\mu g - \text{ol/l}$	NO ₃ -N $\mu g - \text{ol/l}$	SIO ₄ -Si $\mu g - \text{ol/l}$	pH	S C
		STD	0000	0220	3287	2627	0017547	0000	14562								
		OBS	0000	0220	32870	2627			14562								
		STD	0010	0129	3285	2632	0017091	0017	14523								
		OBS	0010	0129	32850	2632			14523								
		STD	0020	0080	3289	2639	0016501	0034	14503								
		OBS	0020	0080	32890	2639			14503								
		STD	0030	-0043	3301	2654	0014998	0050	14450								
		OBS	0030	-0043	33010	2654			14450								
		STD	0050	-0077	3316	2668	0013713	0079	14440								
		OBS	0050	-0077	33160	2668			14440								
		OBS	0060	-0093	33190	2671			14435								
		OBS	0070	-0077	33250	2675			14445								
		STD	0075	-0090	3331	2680	0012483	0111	14440								
		OBS	0075	-0090	33313	2680			14440								
		STD	0100	-0022	3351	2694	0011244	0141	14479								
		OBS	0100	-0022	33510	2694			14479								
		STD	0125	0085	3372	2705	0010200	0168	14534								
		OBS	0125	0085	33722	2705			14534								
		OBS	0135	0186	33870	2710			14583								
		STD	0150	0118	3382	2711	0009668	0193	14555								
		OBS	0150	0118	33820	2711			14555								
		OBS	0190	0325	34330	2735			14659								
		STD	0200	0320	3432	2735	0007515	0236	14658								
		OBS	0200	0320	34322	2735			14658								
		OBS	0205	0299	34282	2734			14650								
		OBS	0219	0405	34560	2745			14701								
		OBS	0238	0380	34520	2745			14693								
		OBS	0245	0485	34763	2753			14741								
		STD	0250	0440	3471	2753	0005864	0269	14723								
		OBS	0250	0440	34710	2753			14723								
		OBS	0255	0530	34870	2756			14763								
		STD	0300	0428	3473	2756	0005672	0298	14726								
		OBS	0300	0428	34725	2756			14726								
		OBS	0340	0390	34712	2759			14716								
		OBS	0370	0410	34769	2761			14731								
		STD	0400	0388	3475	2762	0005151	0352	14726								
		OBS	0400	0388	34750	2762			14726								
		STD	0500	0461	3492	2767	0004839	0402	14775								
		OBS	0500	0461	34915	2767			14775								
		STD	0600	0448	3493	2770	0004682	0450	14787								
		OBS	0600	0448	34930	2770			14787								
		STD	0700	0435	3493	2771	0004632	0496	14798								
		OBS	0700	0435	34930	2771			14798								
		STD	0800	0430	3496	2774	0004488	0542	14813								
		OBS	0800	0430	34955	2774			14813								
		STD	0900	0426	3496	2775	0004503	0587	14828								
		OBS	0900	0426	34960	2775			14828								
		STD	1000	0414	3496	2776	0004454	0631	14839								
		OBS	1000	0414	34960	2776			14839								
		STD	1100	0395	3494	2777	0004461	0676	14848								
		OBS	1100	0395	34940	2777			14848								
		STD	1200	0396	3495	2777	0004491	0721	14865								
		OBS	1200	0396	34950	2777			14865								
		STD	1300	0387	3495	2778	0004467	0766	14878								
		OBS	1300	0387	34950	2778			14878								
		STD	1400	0382	3495	2779	0004491	0810	14893								
		OBS	1400	0382	34950	2779			14893								
		STD	1500	0380	3495	2779	0004551	0856	14909								
		OBS	1500	0380	34950	2779			14909								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
318016	EV		44355N	04835 W	149	48	05 20	227	1967	9958	2377	15	24	1	2		X2	0	3		0042
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB												
OT	SD	19	S07	315	072	067	6	40													
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C				
		STD	0000	0353	3303	2629	0017414	0000	14622												
227		OBS	0000	0353	33030	2629			14622												
		STD	0010	0098	3294	2641	0016222	0017	14511												
		OBS	0010	0098	32940	2641			14511												
003		OBS	0015	0036	32900	2642			14483												
		STD	0020	0182	3341	2673	0013187	0032	14556												
		OBS	0020	0182	33410	2673			14556												
		OBS	0025	0086	33232	2666			14512												
		STD	0030	0195	3345	2676	0012978	0045	14564												
		OBS	0030	0195	33450	2676			14564												
		OBS	0038	0237	33490	2676			14584												
		STD	0050	-0022	3338	2683	0012236	0070	14469												
		OBS	0050	-0022	33382	2683			14469												
		STD	0075	0166	3368	2696	0011080	0099	14562												
		OBS	0075	0166	33675	2696			14562												
		OBS	0083	0140	33762	2705			14553												
		OBS	0095	0400	34195	2717			14673												
		STD	0100	0350	3419	2721	0008715	0124	14653												
		OBS	0100	0350	34190	2721			14653												
		OBS	0110	0400	34345	2729			14678												
		STD	0125	0355	3433	2732	0007744	0144	14661												
		OBS	0125	0355	34328	2732			14661												
		OBS	0138	0343	34345	2734			14658												
		STD	0150	0388	3447	2740	0007006	0163	14681												
		OBS	0150	0388	34472	2740			14681												
		OBS	0175	0374	34518	2745			14680												
		STD	0200	0413	3466	2753	0005884	0195	14702												
		OBS	0200	0413	34662	2753			14702												
		OBS	0211	0500	34870	2759			14743												
		OBS	0235	0410	34710	2757			14708												
		STD	0250	0468	3485	2761	0005128	0222	14736												
		OBS	0250	0468	34850	2761			14736												
		OBS	0280	0570	34985	2760			14785												
		STD	0300	0563	3499	2761	0005292	0249	14785												
		OBS	0300	0563	34987	2761			14785												
		OBS	0320	0525	34920	2760			14772												
		OBS	0338	0533	34970	2763			14779												
		OBS	0350	0470	34873	2763			14754												
		OBS	0360	0493	34945	2766			14766												
		OBS	0382	0460	34910	2767			14755												
		STD	0400	0470	3495	2769	0004573	0298	14763												
		OBS	0400	0470	34950	2769			14763												
		STD	0500	0436	3494	2772	0004363	0343	14765												
		OBS	0500	0436	34940	2772			14765												
		STD	0600	0430	3494	2773	0004397	0386	14779												
		OBS	0600	0430	34940	2773			14779												
		STD	0700	0420	3494	2774	0004366	0430	14792												
		OBS	0700	0420	34942	2774			14792												
		STD	0800	0397	3493	2776	0004282	0473	14799												
		OBS	0800	0397	34930	2776			14799												
		STD	0900	0391	3494	2777	0004230	0516	14813												
		OBS	0900	0391	34940	2777			14813												
		STD	1000	0389	3494	2777	0004282	0558	14829												
		OBS	1000	0389	34942	2777			14829												
		STD	1100	0396	3495	2777	0004392	0602	14849												
		OBS	1100	0396	34951	2777			14849												
		STD	1200	0384	3495	2779	0004334	0645	14860												
		OBS	1200	0384	34951	2779			14860												
		STD	1300	0377	3495	2779	0004333	0689	14874												
		OBS	1300	0377	34951	2779			14874												
		STD	1400	0373	3495	2780	0004368	0732	14889												
		OBS	1400	0373	34951	2780			14889												
		STD	1500	0370	3495	2780	0004414	0776	14905												
		OBS	1500	0370	34951	2780			14905												

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIGINATOR'S STATION NUMBER	STATION TIME (GMT)	YEAR	CRUISE NO.	DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS	WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER						
														MARS DEN SQUARE	10"	1"	MO	DAY	HR.
318016	EV	4433 N	048145W	149	48	05	21	004	1967	9959	3383	15	23	1	3	X0	0	3	0043
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	IMBSI	DRY BULB	WET BULB											
		01	50	22	506	322	083	072	7	35									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SIO ₄ -Si μg - at/l	pH	S C		
		STD	0000	0396	3307	2628	0017544	0000	14641										
	004	OBS	0000	0396	33065	2628			14641										
		OBS	0005	0260	33010	2635			14583										
		STD	0010	0290	3315	2644	0015973	0017	14598										
	003	OBS	0010	0290	33150	2644			14598										
		STD	0020	0404	3340	2653	0015128	0032	14652										
		OBS	0020	0404	33398	2653			14652										
		OBS	0025	0332	33490	2667			14623										
		STD	0030	0430	3364	2670	0013572	0047	14668										
		OBS	0030	0430	33640	2670			14668										
		OBS	0041	0344	33590	2674			14633										
		STD	0050	0375	3369	2679	0012713	0073	14649										
		OBS	0050	0375	33685	2679			14649										
		OBS	0070	0115	33510	2686			14536										
		STD	0075	0131	3358	2691	0011564	0103	14545										
		OBS	0075	0131	33580	2691			14545										
		OBS	0085	0293	33840	2699			14621										
		OBS	0094	0201	33788	2702			14582										
		STD	0100	0245	3394	2711	0009680	0130	14604										
		OBS	0100	0245	33940	2711			14604										
		STD	0125	0300	3414	2722	0008652	0153	14635										
		OBS	0125	0300	34140	2722			14635										
		OBS	0145	0364	34330	2731			14668										
		STD	0150	0334	3425	2728	0008151	0174	14655										
		OBS	0150	0334	34250	2728			14655										
		OBS	0170	0427	34510	2739			14701										
		OBS	0175	0383	34438	2738			14683										
		STD	0200	0393	3457	2747	0006367	0210	14693										
		OBS	0200	0393	34570	2747			14693										
		OBS	0220	0417	34645	2751			14707										
		STD	0250	0385	3465	2755	0005723	0240	14699										
		OBS	0250	0385	34651	2755			14699										
		STD	0300	0419	3481	2763	0004977	0267	14725										
		OBS	0300	0419	34805	2763			14723										
		STD	0400	0454	3494	2770	0004500	0314	14756										
		OBS	0400	0454	34935	2770			14756										
		STD	0500	0462	3497	2772	0004442	0359	14776										
		OBS	0500	0462	34970	2772			14776										
		OBS	0573	0424	34951	2774			14773										
		STD	0600	0429	3496	2774	0004237	0403	14779										
		OBS	0600	0429	34960	2774			14779										
		STD	0700	0427	3497	2776	0004241	0445	14795										
		OBS	0700	0427	34970	2776			14795										
		STD	0800	0413	3497	2777	0004174	0487	14806										
		OBS	0800	0413	34970	2777			14806										
		STD	0900	0396	3497	2779	0004082	0528	14815										
		OBS	0900	0396	34968	2779			14815										
		STD	1000	0391	3497	2779	0004100	0569	14830										
		OBS	1000	0391	34970	2779			14830										
		STD	1100	0382	3496	2779	0004154	0610	14843										
		OBS	1100	0382	34960	2779			14843										
		STD	1200	0378	3496	2780	0004193	0652	14858										
		OBS	1200	0378	34960	2780			14858										
		STD	1300	0375	3496	2780	0004242	0694	14873										
		OBS	1300	0375	34960	2780			14873										
		STD	1400	0373	3496	2780	0004302	0737	14889										
		OBS	1400	0373	34960	2780			14889										
		STD	1500	0370	3497	2781	0004290	0780	14905										
		OBS	1500	0370	34968	2781			14905										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318016	EV		4430 N	04800 W		149	48	05	21	019	1967		9960	3621	15	19	1	4		X0	0	3	0044
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR	TRANS.	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						CODE	(m)		(m/s)	(mb)													
						OT	SO	22	SI	0	335	133	111	7	41								

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S/C
		STO	0000	1316	3520	2653	0015086	0000	15017								
	019	OBS	0000	1316	35201	2653			15017								
		STO	0010	1311	3520	2654	0015017	0015	15017								
		OBS	0010	1311	35201	2654			15017								
		STO	0020	1330	3529	2657	0014759	0030	15026								
	003	OBS	0020	1330	35290	2657			15026								
		STO	0030	1346	3543	2665	0014073	0044	15034								
		OBS	0030	1346	35430	2665			15034								
		STO	0050	1256	3542	2682	0012470	0071	15007								
		OBS	0050	1256	35420	2682			15007								
		OBS	0058	1268	35468	2684			15013								
		STO	0075	1245	3542	2685	0012337	0102	15008								
		OBS	0075	1245	35419	2685			15008								
		STO	0100	1210	3537	2687	0012146	0133	14999								
		OBS	0100	1210	35365	2687			14999								
		STO	0125	1151	3527	2691	0011868	0163	14982								
		OBS	0125	1151	35265	2691			14982								
		OBS	0132	1210	35496	2697			15006								
		STO	0150	1134	3535	2700	0011037	0191	14981								
		OBS	0150	1134	35345	2700			14981								
		OBS	0162	1156	35448	2704			14992								
		STO	0200	0938	3508	2714	0009777	0243	14915								
		OBS	0200	0938	35080	2714			14915								
		OBS	0208	0900	35040	2717			14902								
		OBS	0215	0925	35150	2721			14914								
		STO	0250	0686	3483	2732	0008021	0288	14824								
		OBS	0250	0686	34825	2732			14824								
		OBS	0267	0677	34808	2732			14823								
		OBS	0295	0723	34988	2740			14848								
		STO	0300	0705	3495	2739	0007434	0326	14841								
		OBS	0300	0705	34950	2739			14841								
		OBS	0305	0683	34920	2740			14833								
		OBS	0326	0764	35150	2747			14871								
		OBS	0360	0632	34968	2751			14822								
		OBS	0387	0693	35151	2757			14853								
		STO	0400	0633	3504	2756	0005948	0393	14830								
		OBS	0400	0633	35039	2756			14830								
		OBS	0425	0641	35118	2761			14839								
		OBS	0480	0455	34861	2764			14769								
		OBS	0489	0475	34920	2766			14779								
		STO	0500	0455	3490	2767	0004880	0447	14773								
		OBS	0500	0455	34900	2767			14773								
		OBS	0523	0491	34955	2767			14792								
		OBS	0540	0456	34910	2768			14780								
		STO	0600	0453	3494	2770	0004674	0495	14789								
		OBS	0600	0453	34939	2770			14789								
		OBS	0640	0450	34950	2771			14794								
		STO	0700	0495	3506	2775	0004439	0541	14824								
		OBS	0700	0495	35055	2775			14824								
		STO	0800	0450	3503	2778	0004192	0584	14822								
		OBS	0800	0450	35028	2778			14822								
		STO	0900	0436	3503	2779	0004146	0626	14833								
		OBS	0900	0436	35025	2779			14833								
		STO	1000	0415	3501	2780	0004097	0667	14841								
		OBS	1000	0415	35010	2780			14841								
		STO	1100	0400	3499	2780	0004154	0708	14851								
		OBS	1100	0400	34990	2780			14851								
		STO	1200	0392	3499	2781	0004146	0750	14864								
		OBS	1200	0392	34990	2781			14864								
		STO	1300	0384	3498	2781	0004187	0791	14877								
		OBS	1300	0384	34983	2781			14877								
		STO	1400	0373	3498	2782	0004141	0833	14890								
		OBS	1400	0373	34982	2782			14890								
		STO	1500	0373	3498	2782	0004226	0875	14906								
		OBS	1500	0373	34982	2782			14906								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
CTRY CODE	ID. NO.					10'	1'	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
31	8016	EV	4428 N	04747 W	149	47	05	21	032	1967	9961	3585	15	20	1	4		X0	0	3		0045	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
		DT	SD	20	S09	335	128	111	7					34									
MESSAGE TIME HR 1/10	CASST OF NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH							
		STD	0000	1152	3461	2640	0016386	0000	14953														
	032	OBS	0000	1152	34612	2640			14953														
		STD	0010	1198	3484	2649	0015563	0016	14974														
		OBS	0010	1198	34839	2649			14974														
		STD	0020	1267	3514	2658	0014690	0031	15003														
	003	OBS	0020	1267	35135	2658			15003														
		STD	0030	1250	3536	2679	0012759	0045	15001														
		OBS	0334	0687	34790	2729			14838														
		OBS	0346	0773	35082	2740			14877														
		STD	0400	0634	3494	2748	0006696	0434	14829														
		OBS	0400	0634	34940	2748			14829														
		OBS	0454	0515	34815	2753			14789														
		OBS	0465	0440	34750	2757			14759														
		STD	0500	0476	3491	2765	0005053	0493	14781														
		OBS	0500	0476	34910	2765			14781														
		OBS	0540	0568	35040	2765			14827														
		STD	0600	0542	3504	2768	0005039	0543	14827														
		OBS	0600	0542	35038	2768			14827														
		STD	0700	0445	3494	2771	0004685	0592	14802														
		OBS	0030	1250	35358	2679			15001														
		STD	0050	1233	3537	2683	0012392	0070	14999														
		OBS	0050	1233	35372	2683			14999														
		STD	0075	1243	3540	2683	0012439	0101	15007														
		OBS	0075	1243	35400	2683			15007														
		STD	0100	1258	3545	2684	0012458	0132	15017														
		OBS	0100	1258	35445	2684			15017														
		STD	0125	1277	3551	2685	0012418	0163	15028														
		OBS	0125	1277	35509	2685			15028														
		OBS	0135	1280	35515	2685			15031														
		STD	0150	1260	3548	2686	0012387	0194	15026														
		OBS	0150	1260	35478	2686			15026														
		OBS	0160	1197	35318	2686			15004														
		OBS	0195	1195	35378	2691			15010														
		STD	0200	1150	3527	2691	0012013	0255	14994														
		OBS	0200	1150	35268	2691			14994														
		STD	0250	0810	3481	2713	0009878	0310	14872														
		OBS	0250	0810	34812	2713			14872														
		OBS	0260	0891	35081	2722			14907														
		STD	0300	0817	3499	2726	0008795	0357	14885														
		OBS	0300	0817	34985	2726			14885														
		OBS	0310	0850	35109	2730			14901														
		OBS	0700	0445	34939	2771			14802														
		STD	0800	0448	3497	2773	0004574	0638	14820														
		OBS	0800	0448	34973	2773			14820														
		STD	0900	0440	3499	2776	0004454	0683	14834														
		OBS	0900	0440	34990	2776			14834														
		STD	1000	0425	3499	2777	0004368	0727	14844														
		OBS	1000	0425	34990	2777			14844														
		STD	1100	0415	3499	2778	0004341	0771	14857														
		OBS	1100	0415	34990	2778			14857														
		STD	1200	0403	3499	2780	0004285	0814	14869														
		OBS	1200	0403	34990	2780			14869														
		STD	1300	0388	3497	2780	0004333	0857	14879														
		OBS	1300	0388	34970	2780			14879														
		STD	1400	0384	3497	2780	0004370	0901	14894														
		OBS	1400	0384	34970	2780			14894														
		STD	1500	0380	3497	2780	0004405	0945	14909														
		OBS	1500	0380	34970	2780			14909														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE NO.	STATION NUMBER					CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA	TYPE	AMT					
318016	EV		44235N	04727 W	149 47	05 21	051	1967	9962		3895	15	23	1	2		X0	0	3		0046
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. M	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
		0T	SD	22	512	315	128	106	7	27											
MESSNGR TIME HP 1/10	CST OF NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. AL. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	Si O ₄ -Si $\mu g - dl/l$	pH	S C				
		STD	0000	1439	3554	2654	0015029	0000	15061												
051		OBS	0000	1439	35542	2654			15061												
		STD	0010	1437	3554	2654	0015018	0015	15062												
		OBS	0010	1437	35542	2654			15062												
		STD	0020	1382	3550	2663	0014266	0030	15045												
003		OBS	0020	1382	35497	2663			15045												
		STD	0030	1339	3555	2675	0013093	0043	15033												
		OBS	0030	1339	35545	2675			15033												
		STD	0050	1299	3551	2680	0012665	0069	15023												
		OBS	0050	1299	35505	2680			15023												
		STD	0075	1213	3533	2684	0012365	0100	14996												
		OBS	0075	1213	35334	2684			14996												
		STD	0100	1245	3544	2686	0012234	0131	15012												
		OBS	0100	1245	35442	2686			15012												
		STD	0125	1219	3537	2686	0012341	0162	15006												
		OBS	0125	1219	35370	2686			15006												
		STD	0150	1179	3530	2688	0012188	0193	14996												
		OBS	0150	1179	35294	2688			14996												
		STD	0200	1121	3523	2693	0011808	0253	14983												
		OBS	0200	1121	35225	2693			14983												
		OBS	0215	1138	35354	2700			14993												
		STD	0250	1033	3521	2708	0010472	0308	14960												
		OBS	0250	1033	35214	2708			14960												
		STD	0300	0908	3513	2723	0009134	0357	14921												
		OBS	0300	0908	35130	2723			14921												
		STD	0400	0692	3498	2743	0007221	0439	14853												
		OBS	0400	0692	34976	2743			14853												
		STD	0500	0588	3500	2759	0005807	0504	14828												
		OBS	0500	0588	34997	2759			14828												
		OBS	0586	0542	35020	2766			14824												
		STD	0600	0490	3494	2766	0005113	0559	14804												
		OBS	0600	0490	34940	2766			14804												
		OBS	0630	0477	34942	2768			14804												
		STD	0700	0462	3497	2771	0004683	0608	14810												
		OBS	0700	0462	34967	2771			14810												
		STD	0800	0442	3497	2774	0004530	0654	14818												
		OBS	0800	0442	34969	2774			14818												
		STD	0900	0413	3494	2775	0004463	0699	14822												
		OBS	0900	0413	34944	2775			14822												
		STD	1000	0411	3496	2777	0004395	0743	14838												
		OBS	1000	0411	34963	2777			14838												
		STD	1100	0402	3496	2778	0004371	0787	14851												
		OBS	1100	0402	34964	2778			14851												
		STD	1200	0384	3495	2779	0004326	0830	14860												
		OBS	1200	0384	34952	2779			14860												
		STD	1300	0385	3496	2779	0004354	0874	14878												
		OBS	1300	0385	34962	2779			14878												
		STD	1400	0379	3496	2780	0004364	0917	14892												
		OBS	1400	0379	34962	2780			14892												
		STD	1500	0374	3496	2780	0004385	0961	14907												
		OBS	1500	0374	34962	2780			14907												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318016	EV		44195N	04706 W		149	47	05	21	068	1967	9963	4078	15	27	1	2		X4	0	3	0047
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	CODE											
		OT	SD	23	S12	308	119	106	6	38												
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{dl}^{-1}$	SiO ₄ -S $\mu\text{g} \cdot \text{dl}^{-1}$	pH	S C					
		STD	0000	1034	3363	2585	0021625	0000	14899													
	068	OBS	0000	1034	33630	2585			14899													
		OBS	0006	1041	33663	2586			14903													
		STD	0010	0995	3347	2579	0022199	0022	14884													
	003	OBS	0010	0995	33470	2579			14884													
		OBS	0013	1387	35448	2658			15045													
		STD	0020	1290	3521	2659	0014575	0040	15011													
		OBS	0020	1290	35210	2659			15011													
		STD	0030	1309	3554	2681	0012532	0054	15023													
		OBS	0030	1309	35542	2681			15023													
		OBS	0045	1309	35540	2681			15026													
		STD	0050	1262	3542	2681	0012583	0079	15009													
		OBS	0050	1262	35420	2681			15009													
		OBS	0060	1280	35479	2682			15018													
		STD	0075	1233	3533	2685	0012325	0110	15003													
		OBS	0075	1233	35390	2685			15003													
		OBS	0081	1162	35218	2685			14978													
		OBS	0095	1183	35301	2687			14988													
		STD	0100	1170	3526	2687	0012185	0141	14984													
		OBS	0100	1170	35260	2687			14984													
		STD	0125	1046	3509	2696	0011322	0170	14942													
		OBS	0125	1046	35090	2696			14942													
		OBS	0142	1060	35179	2701			14951													
		STD	0150	0990	3504	2702	0010818	0198	14925													
		OBS	0150	0990	35039	2702			14925													
		OBS	0176	0925	34990	2709			14905													
		STD	0200	0993	3522	2715	0009658	0249	14937													
		OBS	0200	0993	35218	2715			14937													
		STD	0250	0841	3506	2727	0008547	0295	14887													
		OBS	0250	0841	35055	2727			14887													
		OBS	0265	0834	35090	2731			14887													
		STD	0300	0607	3480	2741	0007238	0334	14800													
		OBS	0300	0607	34800	2741			14800													
		OBS	0302	0638	34880	2743			14814													
		OBS	0330	0608	34898	2748			14807													
		OBS	0350	0653	35002	2751			14830													
		STD	0400	0562	3492	2755	0005947	0400	14800													
		OBS	0400	0562	34915	2755			14800													
		STD	0500	0520	3497	2765	0005148	0455	14800													
		OBS	0500	0520	34969	2765			14800													
		OBS	0548	0617	35190	2770			14850													
		STD	0600	0550	3508	2770	0004831	0505	14831													
		OBS	0600	0550	35080	2770			14831													
		OBS	0640	0469	34987	2772			14803													
		STD	0700	0449	3498	2774	0004444	0552	14804													
		OBS	0700	0449	34978	2774			14804													
		STD	0800	0487	3506	2776	0004424	0596	14838													
		OBS	0800	0487	35059	2776			14838													
		STD	0900	0452	3504	2778	0004249	0639	14840													
		OBS	0900	0452	35038	2778			14840													
		STD	1000	0440	3503	2778	0004298	0682	14851													
		OBS	1000	0440	35025	2778			14851													
		STD	1100	0420	3502	2780	0004168	0724	14859													
		OBS	1100	0420	35022	2780			14859													
		STD	1200	0392	3499	2780	0004183	0766	14864													
		OBS	1200	0392	34985	2780			14864													
		STD	1300	0380	3498	2781	0004195	0808	14876													
		OBS	1300	0380	34975	2781			14876													
		STD	1400	0372	3498	2782	0004165	0850	14889													
		OBS	1400	0372	34977	2782			14889													
		STD	1500	0370	3498	2782	0004224	0892	14905													
		OBS	1500	0370	34977	2782			14905													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10			CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER	SEA		TYPE	AMT	

				WATER		WIND		BARO-METER		AIR TEMP. °C		NO. OBS.		SPECIAL OBSERVATIONS			
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. DEPTHS					
				DT	SD	00	500	315	172	150	6	33					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C
098		STD	0000	1328	3441	2590	0021121	0000	15011								
		OBS	0000	1328	34410	2590			15011								
		STD	0010	1548	3541	2619	0018338	0020	15096								
003		OBS	0010	1548	35405	2619			15096								
		STD	0020	1492	3555	2643	0016133	0037	15081								
		OBS	0020	1492	35549	2643			15081								
		STD	0030	1371	3546	2662	0014347	0052	15043								
		OBS	0030	1371	35460	2662			15043								
		OBS	0040	1257	35230	2667			15004								
		STD	0050	1319	3544	2671	0013514	0080	15029								
		OBS	0050	1319	35442	2671			15029								
		OBS	0055	1242	35276	2674			15002								
		STD	0075	1230	3528	2677	0013077	0113	15001								
		OBS	0075	1230	35280	2677			15001								
		OBS	0080	1246	35337	2678			15008								
		OBS	0093	1206	35251	2679			14995								
		STD	0100	1219	3528	2679	0012937	0146	15001								
		OBS	0100	1219	35280	2679			15001								
		OBS	0102	1265	35421	2681			15019								
		STD	0125	1244	3538	2681	0012765	0178	15015								
		OBS	0125	1244	35376	2681			15015								
		STD	0150	1250	3539	2681	0012842	0210	15021								
		OBS	0150	1250	35390	2681			15021								
		STD	0200	1296	3557	2686	0012541	0273	15047								
		OBS	0200	1296	35570	2686			15047								
		STD	0250	1193	3546	2698	0011489	0333	15019								
		OBS	0250	1193	35464	2698			15019								
		STD	0300	1132	3543	2707	0010781	0389	15006								
		OBS	0300	1132	35425	2707			15006								
		STD	0400	0848	3508	2728	0008754	0487	14914								
	OBS	0400	0848	35080	2728			14914									
	STD	0500	0585	3486	2748	0006812	0565	14825									
	OBS	0500	0585	34856	2748			14825									
	OBS	0530	0618	34975	2753			14845									
	STD	0600	0540	3495	2761	0005665	0627	14825									
	OBS	0600	0540	34950	2761			14825									
	OBS	0629	0522	34949	2763			14822									
	OBS	0681	0607	35148	2768			14868									
	STD	0700	0587	3511	2768	0005231	0682	14862									
	OBS	0700	0587	35110	2768			14862									
	STD	0800	0473	3494	2768	0005127	0733	14830									
	OBS	0800	0473	34940	2768			14830									
	STD	0900	0441	3496	2773	0004688	0782	14834									
	OBS	0900	0441	34960	2773			14834									
	OBS	0966	0472	35030	2775			14859									
	STD	1000	0452	3501	2776	0004597	0829	14856									
	OBS	1000	0452	35005	2776			14856									
	STD	1100	0421	3496	2776	0004615	0875	14859									
	OBS	1100	0421	34963	2776			14859									
	STD	1200	0405	3496	2777	0004538	0921	14869									
	OBS	1200	0405	34959	2777			14869									
	STD	1300	0394	3496	2778	0004490	0966	14881									
	OBS	1300	0394	34959	2778			14881									
	STD	1400	0388	3496	2779	0004502	1011	14896									
	OBS	1400	0388	34959	2779			14896									
	STD	1500	0380	3496	2780	0004485	1056	14909									
	OBS	1500	0380	34959	2780			14909									

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	DEPTH FATHOMS	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT		
318016	EV		4404 N	04544 W		149	45	05	21	130	1967	9965	4151	15	02	3	2		X1	0	3	0049
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	(mb)	(mb)	DRY BULB	WET BULB													
OT	SD	18	518	308	183	150	7	34														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDALTY-10 ²	Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TDIA-L-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST					
		STD	0000	1539	3549	2628	0017503	0000	15092													
130		OBS	0000	1539	35489	2628			15092													
		STD	0010	1538	3549	2628	0017512	0018	15094													
		OBS	0010	1538	35489	2628			15094													
003		OBS	0015	1550	35569	2632			15099													
		STD	0020	1609	3590	2644	0016081	0034	15122													
		OBS	0020	1609	35900	2644			15122													
		STD	0030	1608	3595	2648	0015727	0050	15124													
		OBS	0030	1608	35950	2648			15124													
		STD	0050	1610	3608	2657	0014889	0081	15130													
		OBS	0050	1610	36080	2657			15130													
		OBS	0055	1615	36108	2658			15132													
		STD	0075	1563	3610	2669	0013803	0117	15119													
		OBS	0075	1563	36099	2669			15119													
		STD	0100	1537	3607	2673	0013532	0151	15115													
		OBS	0100	1537	36070	2673			15115													
		OBS	0105	1538	36060	2672			15116													
		OBS	0115	1470	35900	2675			15094													
		STD	0125	1450	3584	2675	0013434	0185	15089													
		OBS	0125	1450	35842	2675			15089													
		STD	0150	1441	3583	2676	0013410	0218	15090													
		OBS	0150	1441	35830	2676			15090													
		STD	0200	1333	3559	2680	0013120	0284	15060													
		OBS	0200	1333	35590	2680			15060													
		STD	0250	1275	3553	2687	0012597	0349	15048													
		OBS	0250	1275	35525	2687			15048													
		OBS	0270	1340	35735	2690			15075													
		STD	0300	1300	3571	2696	0011868	0410	15067													
		OBS	0300	1300	35710	2696			15067													
		OBS	0377	0990	35133	2709			14964													
		OBS	0382	1030	35289	2714			14981													
		STD	0400	1019	3530	2717	0009935	0519	14980													
		OBS	0400	1019	35300	2717			14980													
		OBS	0410	1029	35320	2717			14986													
		OBS	0472	0792	34990	2730			14904													
		OBS	0482	0823	35077	2732			14918													
		STD	0500	0759	3500	2735	0008172	0609	14896													
		OBS	0500	0759	35000	2735			14896													
		STD	0600	0639	3502	2754	0006472	0683	14865													
		OBS	0600	0639	35019	2754			14865													
		STD	0700	0570	3502	2763	0005668	0743	14854													
		OBS	0700	0570	35020	2763			14854													
		STD	0800	0505	3502	2770	0004979	0797	14844													
		OBS	0800	0505	35015	2770			14844													
		STD	0900	0475	3501	2773	0004746	0845	14849													
		OBS	0900	0475	35010	2773			14849													
		STD	1000	0452	3502	2776	0004516	0892	14856													
		OBS	1000	0452	35016	2776			14856													
		STD	1100	0440	3502	2778	0004444	0936	14868													
		OBS	1100	0440	35019	2778			14868													
		STD	1200	0421	3501	2779	0004359	0980	14876													
		OBS	1200	0421	35011	2779			14876													
		STD	1300	0400	3499	2780	0004339	1024	14884													
		OBS	1300	0400	34990	2780			14884													
		STD	1400	0380	3496	2780	0004370	1067	14892													
		OBS	1400	0380	34963	2780			14892													
		STD	1500	0380	3497	2780	0004412	1111	14909													
		OBS	1500	0380	34969	2780			14909													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	YEAR			DIR.	HGT	PER	SEA		TYPE	AMT	
318016	EV		4356 N	04504 W	149	35	05	21	162	1967		9966	4206	15	17	2	3	X0	0	3	0050
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB												
		DT	SD	16	516	312	183	178	7	40											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
		STD	0000	1472	3564	2654	0014992	0000	15073												
162		OBS	0000	1472	35640	2654			15073												
		OBS	0003	1472	35630	2654			15073												
		STD	0010	1405	3558	2664	0014091	0015	15052												
003		OBS	0010	1405	35580	2664			15052												
		STD	0020	1405	3559	2665	0014061	0029	15054												
		OBS	0020	1405	35588	2665			15054												
		STD	0030	1397	3559	2667	0013907	0043	15053												
		OBS	0030	1397	35591	2667			15053												
		STD	0050	1375	3558	2670	0013627	0070	15049												
		OBS	0050	1375	35577	2670			15049												
		OBS	0055	1331	35505	2674			15034												
		OBS	0058	1350	35490	2669			15041												
		OBS	0064	1319	35480	2674			15032												
		OBS	0070	1359	35610	2676			15047												
		STD	0075	1350	3560	2677	0013034	0103	15045												
		OBS	0075	1350	35600	2677			15045												
		OBS	0090	1328	35559	2679			15040												
		STD	0100	1307	3551	2679	0012906	0136	15034												
		OBS	0100	1307	35512	2679			15034												
		OBS	0106	1299	35500	2680			15032												
		OBS	0109	1280	35470	2682			15026												
		STD	0125	1282	3549	2683	0012653	0168	15029												
		OBS	0125	1282	35490	2683			15029												
		STD	0150	1278	3550	2684	0012592	0199	15032												
		OBS	0150	1278	35497	2684			15032												
		STD	0200	1210	3546	2695	0011707	0260	15017												
		OBS	0200	1210	35460	2695			15017												
		OBS	0235	1125	35311	2699			14991												
		OBS	0245	1170	35455	2702			15010												
		STD	0250	1158	3546	2704	0010874	0317	15007												
		OBS	0250	1158	35460	2704			15007												
		STD	0300	1040	3525	2710	0010440	0370	14971												
		OBS	0300	1040	35250	2710			14971												
		STD	0400	0760	3491	2728	0008681	0465	14878												
		OBS	0400	0760	34910	2728			14878												
		OBS	0405	0717	34850	2730			14862												
		OBS	0430	0741	35030	2740			14878												
		OBS	0480	0417	34660	2752			14750												
		STD	0500	0514	3478	2751	0006478	0541	14795												
		OBS	0500	0514	34780	2751			14795												
		OBS	0511	0493	34820	2756			14789												
		OBS	0550	0550	34910	2757			14820												
		OBS	0570	0521	34945	2763			14812												
		STD	0600	0551	3500	2764	0005436	0601	14830												
		OBS	0600	0551	35000	2764			14830												
		STD	0700	0519	3499	2767	0005224	0654	14833												
		OBS	0700	0519	34990	2767			14833												
		STD	0800	0472	3498	2772	0004790	0704	14830												
		OBS	0800	0472	34984	2772			14830												
		STD	0900	0463	3502	2775	0004520	0751	14844												
		OBS	0900	0463	35020	2775			14844												
		STD	1000	0445	3501	2777	0004479	0796	14853												
		OBS	1000	0445	35009	2777			14853												
		STD	1100	0421	3499	2778	0004417	0840	14859												
		OBS	1100	0421	34990	2778			14859												
		STD	1200	0419	3499	2778	0004488	0885	14875												
		OBS	1200	0419	34990	2778			14875												
		STD	1300	0405	3499	2779	0004440	0929	14886												
		OBS	1300	0405	34985	2779			14886												
		STD	1400	0400	3499	2780	0004467	0974	14901												
		OBS	1400	0400	34985	2780			14901												
		STD	1500	0397	3499	2780	0004518	1019	14916												
		OBS	1500	0397	34985	2780			14916												

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH IN METER	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					MO	DAY	HR./1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA	TYPE	AMT					
																				10"		1"		
318016	EV	44255N	04908 W	149	49	05	22	220	1967	9967	0064	00	24	3	2	X2	0	3			0051			
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
		0T	50	20	S10	166		089	078	7		06												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-2107	S Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
		STD	0000	0559	3272	2582		0021822	0000	14704														
	220	OBS	0000	0559	32720	2582				14704														
		OBS	0003	0559	32720	2582				14704														
		STD	0010	0280	3280	2617		0018539	0020	14589														
	001	OBS	0010	0280	32800	2617				14589														
		STD	0020	0059	3294	2644		0016006	0037	14495														
		OBS	0020	0059	32940	2644				14495														
		STD	0030	0030	3297	2648		0015628	0053	14483														
		OBS	0030	0030	32970	2648				14483														
		STD	0050	-0010	3302	2654		0015030	0084	14469														
		OBS	0050	-0010	33023	2654				14469														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYE
318016	EV		44225N	048525W	149	48	05 22 236	1967		9968	0805	07	24	2	2		X2	0 3		0052
		WATER		WIND		BARO-		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)		DRY BULB	WET BULB											
		DT	SD	20	S10	268	089	078	7	22										
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
		STD	0000	0359	3286	2615	0018765	0000	14622											
	236	OBS	0000	0359	32858	2615			14622											
		OBS	0002	0359	32832	2613			14622											
		STD	0010	0191	3286	2628	0017458	0018	14551											
	001	OBS	0010	0191	32855	2628			14551											
		STD	0020	0108	3285	2633	0016980	0035	14515											
		OBS	0020	0108	32848	2633			14515											
		STD	0030	-0089	3304	2659	0014586	0051	14429											
		OBS	0030	-0089	33042	2659			14429											
		STD	0050	-0120	3313	2667	0013794	0079	14419											
		OBS	0050	-0120	33131	2667			14419											
		STD	0075	-0075	3324	2674	0013104	0113	14446											
		OBS	0075	-0075	33239	2674			14446											
		STD	0100	-0075	3326	2676	0012931	0146	14451											
		OBS	0100	-0075	33260	2676			14451											
		STD	0125	-0048	3335	2682	0012326	0177	14469											
		OBS	0125	-0048	33352	2682			14469											
		STD	0150	-0025	3340	2685	0012054	0208	14484											
		OBS	0150	-0025	33400	2685			14484											
		STD	0200	0067	3367	2702	0010485	0264	14538											
		OBS	0200	0067	33670	2702			14538											
		STD	0235	0118	33820	2711			14569											
		OBS	0250	0170	3395	2718	0009075	0313	14596											
		STD	0250	0170	33950	2718			14596											
		OBS	0300	0270	3436	2742	0006874	0353	14654											
		STD	0300	0270	34355	2742			14654											
		OBS	0310	0403	34571	2746			14715											
		STD	0340	0420	34648	2751			14728											
		OBS	0372	0394	34659	2754			14723											
		STD	0400	0416	3475	2759	0005454	0414	14738											
		OBS	0400	0416	34750	2759			14738											
		STD	0500	0435	3490	2769	0004664	0465	14764											
		OBS	0500	0435	34898	2769			14764											
		STD	0600	0433	3494	2772	0004469	0511	14780											
		OBS	0600	0433	34935	2772			14780											
		STD	0700	0425	3493	2773	0004491	0556	14794											
		OBS	0700	0425	34933	2773			14794											
		STD	0730	0425	34933	2773			14799											

REFERENCE	SHIP	LATITUDE	LONGITUDE	DATE	MARSOEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEA-	CLOUD	NOOC
					10"	1"	MO	DAY		CRUISE	STATION			DIR	HGT	PER			
CTRY	ID.									NO.	NUMBER	TO	OF				CODE	CODES	STATION
CODE	NO.											BOTTOM	SAMPL'S						NUMBER

MESSENGR TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - 01/l	TOTAL-P μg - 01/l	NO ₂ -N μg - 01/l	NO ₃ -N μg - 01/l	SiO ₄ -Si μg - 01/l	pH	S C
		STD	0000	0213	3286	2627	0017611	0000	14559								
008		OBS	0000	0213	32855	2627			14559								
		STD	0010	0140	3300	2643	0016057	0017	14530								
		OBS	0010	0140	32995	2643			14530								
003		STD	0020	0140	3299	2643	0016096	0033	14532								
		OBS	0020	0140	32990	2643			14532								
		STD	0030	-0010	3312	2661	0014334	0048	14467								
		OBS	0030	-0010	33115	2661			14467								
		OBS	0031	0029	33170	2664			14486								
		STD	0050	0073	3325	2668	0013703	0076	14510								
		OBS	0050	0073	33252	2668			14510								
		STD	0075	0005	3346	2688	0011766	0108	14486								
		OBS	0075	0005	33459	2688			14486								
		STD	0100	0062	3364	2700	0010702	0136	14519								
		OBS	0100	0062	33638	2700			14519								
		OBS	0110	0121	33715	2702			14548								
		OBS	0118	0073	33680	2702			14527								
		STD	0125	0095	3379	2710	0009745	0162	14540								
		OBS	0125	0095	33790	2710			14540								
		OBS	0145	0201	33980	2718			14593								
		STD	0150	0163	3394	2717	0009071	0185	14576								
		OBS	0150	0163	33940	2717			14576								
		OBS	0165	0140	34010	2725			14570								
		STD	0200	0250	3427	2737	0007267	0226	14627								
		OBS	0200	0250	34272	2737			14627								
		OBS	0240	0396	34570	2747			14701								
		STD	0250	0360	3452	2747	0006460	0260	14686								
		OBS	0250	0360	34519	2747			14686								
		OBS	0280	0420	34685	2754			14719								
		STD	0300	0410	3473	2758	0005478	0290	14718								
		OBS	0300	0410	34725	2758			14718								
		OBS	0358	0400	34745	2761			14724								
		STD	0400	0431	3485	2765	0004911	0342	14745								
		OBS	0400	0431	34845	2765			14745								
		STD	0500	0448	3493	2770	0004613	0390	14770								
		OBS	0500	0448	34925	2770			14770								
		STD	0600	0439	3494	2771	0004539	0435	14783								
		OBS	0600	0439	34935	2771			14783								
		STD	0700	0424	3494	2773	0004465	0481	14793								
		OBS	0700	0424	34935	2773			14793								
		STD	0800	0409	3494	2775	0004386	0525	14804								
		OBS	0800	0409	34935	2775			14804								
		STD	0900	0417	3496	2776	0004408	0569	14824								
		OBS	0900	0417	34958	2776			14824								
		STD	1000	0402	3495	2777	0004381	0613	14834								
		OBS	1000	0402	34950	2777			14834								
		STD	1100	0395	3495	2777	0004387	0657	14848								
		OBS	1100	0395	34950	2777			14848								
		STD	1200	0395	3495	2777	0004478	0701	14865								
		OBS	1200	0395	34950	2777			14865								
		STD	1300	0393	3495	2778	0004521	0746	14881								
		OBS	1300	0393	34953	2778			14881								
		STD	1400	0382	3495	2779	0004469	0791	14893								
		OBS	1400	0382	34953	2779			14893								
		STD	1500	0377	3495	2779	0004490	0836	14908								
		OBS	1500	0377	34953	2779			14908								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DIET INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318016	EV		44175N	04826 W		149	48	05	23	027	1967		9970	3109	15	24	1	4		X2	0	3	0054
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB																	
OT	SD	26	S06	284	061	056	7	32															
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S CLC						
027		STD	0000	0348	3296	2623	0017935	0000	14619														
		OBS	0000	0348	32955	2623			14619														
003		STD	0010	0401	3321	2638	0016545	0017	14646														
		OBS	0010	0401	33205	2638			14646														
		STD	0020	0387	3347	2661	0014423	0033	14646														
		OBS	0020	0387	33470	2661			14646														
		OBS	0025	0395	33460	2659			14650														
		STD	0030	0250	3346	2672	0013324	0047	14588														
		OBS	0030	0250	33459	2672			14588														
		STD	0050	0315	3375	2690	0011692	0072	14624														
		OBS	0050	0315	33748	2690			14624														
		OBS	0062	0390	33842	2690			14659														
		STD	0075	0344	3384	2694	0011275	0100	14642														
		OBS	0075	0344	33840	2694			14642														
		OBS	0090	0283	34060	2717			14621														
		STD	0100	0293	3414	2723	0008552	0125	14628														
		OBS	0100	0293	34143	2723			14628														
		STD	0125	0340	3437	2737	0007278	0145	14655														
		OBS	0125	0340	34371	2737			14655														
		STD	0150	0412	3450	2740	0007040	0163	14692														
		OBS	0150	0412	34500	2740			14692														
		OBS	0168	0349	34503	2746			14668														
	OBS	0190	0416	34609	2748			14701															
	STD	0200	0355	3458	2752	0005911	0195	14677															
	OBS	0200	0355	34580	2752			14677															
	STD	0250	0508	3485	2757	0005586	0224	14753															
	OBS	0250	0508	34850	2757			14753															
	OBS	0283	0528	34921	2760			14767															
	STD	0300	0480	3486	2760	0005283	0251	14749															
	OBS	0300	0480	34855	2760			14749															
	OBS	0310	0457	34850	2763			14741															
	OBS	0360	0539	35000	2765			14785															
	STD	0400	0526	3500	2766	0004883	0302	14787															
	OBS	0400	0526	34998	2766			14787															
	STD	0500	0504	3503	2771	0004514	0349	14795															
	OBS	0500	0504	35028	2771			14795															
	STD	0600	0455	3499	2774	0004312	0393	14790															
	OBS	0600	0455	34991	2774			14790															
	STD	0700	0424	3497	2775	0004242	0436	14794															
	OBS	0700	0424	34965	2775			14794															
	STD	0800	0412	3497	2777	0004199	0478	14805															
	OBS	0800	0412	34965	2777			14805															
	STD	0900	0387	3494	2777	0004190	0520	14811															
	OBS	0900	0387	34939	2777			14811															
	STD	1000	0396	3496	2778	0004249	0562	14832															
	OBS	1000	0396	34958	2778			14832															
	STD	1100	0393	3496	2778	0004304	0605	14847															
	OBS	1100	0393	34958	2778			14847															
	STD	1200	0380	3496	2780	0004232	0648	14859															
	OBS	1200	0380	34958	2780			14859															
	STD	1300	0377	3496	2780	0004282	0690	14874															
	OBS	1300	0377	34958	2780			14874															
	STD	1400	0375	3496	2780	0004343	0733	14890															
	OBS	1400	0375	34958	2780			14890															
	STD	1500	0370	3496	2781	0004363	0777	14905															
	OBS	1500	0370	34958	2781			14905															

REFERENCE CTRY CODE	SHIP ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH FATHOMS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER									
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT										
318016	EV		44145N	04807 W		149	48	05	23	042	1967		9971	3475	15	25	1	2		X6	0	3	0055								
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS																	
						COLOR CODE	TRANS. MM	DIR.	SPEED OF FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE																		
						DT	SD	25	S10	179	078	067	6	33																	
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	T.C.														
		STD	0000	0397	3296	2619	0018353	0000	14640																						
	042	OBS	0000	0397	3295.9	2619			14640																						
		STD	0010	0186	3298	2639	0016490	0017	14550																						
		OBS	0010	0186	3297.8	2639			14550																						
		STD	0020	-0014	3301	2653	0015122	0033	14462																						
	003	OBS	0020	-0014	3301.0	2653			14462																						
		STD	0030	-0070	3316	2668	0013733	0048	14440																						
		OBS	0030	-0070	3316.2	2668			14440																						
		OBS	0040	-0110	3324.5	2676			14424																						
		STD	0050	0155	3351	2683	0012250	0074	14551																						
		OBS	0050	0155	3351.0	2683			14551																						
		OBS	0060	-0025	3339.0	2684			14469																						
		STD	0075	0030	3356	2695	0011130	0103	14499																						
		OBS	0075	0030	3355.9	2695			14499																						
		STD	0100	0064	3368	2703	0010394	0130	14520																						
		OBS	0100	0064	3368.0	2703			14520																						
		STD	0125	0260	3401	2715	0009287	0154	14616																						
		OBS	0125	0260	3401.0	2715			14616																						
		STD	0150	0405	3429	2724	0008559	0177	14686																						
		OBS	0150	0405	3428.8	2724			14686																						
		OBS	0160	0331	3421.5	2725			14655																						
		OBS	0170	0350	3429.0	2729			14666																						
		OBS	0182	0487	3458.5	2738			14729																						
		STD	0200	0440	3451	2738	0007309	0216	14712																						
		OBS	0200	0440	3451.0	2738			14712																						
		OBS	0215	0341	3451.0	2748			14672																						
		STD	0250	0526	3481	2752	0006096	0250	14759																						
		OBS	0250	0526	3481.0	2752			14759																						
		OBS	0265	0425	3471.0	2755			14719																						
		STD	0300	0484	3481	2756	0005665	0279	14750																						
		OBS	0300	0484	3481.0	2756			14750																						
		OBS	0340	0392	3473.0	2760			14718																						
		STD	0400	0501	3494	2765	0004997	0333	14776																						
		OBS	0400	0501	3494.2	2765			14776																						
		OBS	0440	0536	3501.5	2767			14798																						
		STD	0500	0500	3500	2769	0004688	0381	14793																						
		OBS	0500	0500	3499.8	2769			14793																						
		STD	0600	0421	3494	2773	0004330	0426	14776																						
		OBS	0600	0421	3493.5	2773			14776																						
		STD	0700	0410	3494	2775	0004301	0469	14787																						
		OBS	0700	0410	3493.5	2775			14787																						
		STD	0800	0400	3494	2776	0004280	0512	14800																						
		OBS	0800	0400	3493.5	2776			14800																						
		STD	0900	0400	3494	2776	0004322	0555	14817																						
		OBS	0900	0400	3494.2	2776			14817																						
		STD	1000	0395	3494	2777	0004355	0599	14831																						
		OBS	1000	0395	3494.2	2777			14831																						
		STD	1100	0383	3494	2778	0004299	0642	14843																						
		OBS	1100	0383	3494.2	2778			14843																						
		STD	1200	0384	3494	2778	0004400	0685	14860																						
		OBS	1200	0384	3494.2	2778			14860																						
		STD	1300	0375	3494	2779	0004375	0729	14873																						
		OBS	1300	0375	3494.2	2779			14873																						
		STD	1400	0372	3494	2779	0004422	0773	14889																						
		OBS	1400	0372	3494.2	2779			14889																						
		STD	1500	0370	3494	2779	0004480	0818	14905																						
		OBS	1500	0370	3494.2	2779			14905																						

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METERS 1/10	MARS SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CRUISE NO.	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT.			
318016	EV		4412 N	04759 W		149	47	05	23	057	1967		9972		3749	15	23	1	2		X6	0	3		0056
						WATER		WIND		AIR TEMP. °C															
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						DT	SD	24	510	274	083	078	6	30											

MESSAGE	CARD	DEPTH	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	S
TIME	NO.	(m)				ANOMALY-110°	YN. M.	VELOCITY		μg - 01/l	μg - 01/l	μg - 01/l	μg - 01/l	μg - 01/l		C
HR 1/10							x 10 ³									
	STO	0000	1105	3460	2647	0015654	0000	14936								
057	OBS	0000	1105	34600	2647			14936								
	STO	0010	1355	3536	2658	0014707	0015	15033								
	OBS	0010	1355	35360	2658			15033								
	STO	0020	1409	3572	2674	0013191	0029	15057								
003	OBS	0020	1409	35718	2674			15057								
	STO	0030	1364	3562	2676	0013022	0042	15043								
	OBS	0030	1364	35622	2676			15043								
	STO	0050	1330	3560	2681	0012570	0068	15034								
	OBS	0050	1330	35600	2681			15034								
	STO	0075	1270	3547	2684	0012428	0099	15017								
	OBS	0075	1270	35471	2684			15017								
	STO	0100	1265	3549	2686	0012253	0130	15019								
	OBS	0100	1265	35491	2686			15019								
	STO	0125	1210	3540	2690	0011954	0160	15004								
	OBS	0125	1210	35400	2690			15004								
	STO	0150	1180	3536	2693	0011759	0190	14997								
	OBS	0150	1180	35360	2693			14997								
	STO	0200	1040	3524	2709	0010301	0245	14954								
	OBS	0200	1040	35238	2709			14954								
	STO	0250	0712	3476	2723	0008896	0293	14833								
	OBS	0250	0712	34755	2723			14833								
	OBS	0270	0688	34790	2729			14827								
	OBS	0285	0747	34990	2736			14856								
	STO	0300	0735	3498	2737	0007633	0334	14853								
	OBS	0300	0735	34980	2737			14853								
	OBS	0335	0618	34830	2742			14811								
	OBS	0360	0717	35090	2749			14857								
	STO	0400	0585	3495	2755	0006017	0403	14810								
	OBS	0400	0585	34945	2755			14810								
	OBS	0470	0416	34762	2760			14750								
	STO	0500	0454	3489	2766	0004965	0457	14772								
	OBS	0500	0454	34887	2766			14772								
	OBS	0550	0530	35018	2768			14813								
	STO	0600	0481	3496	2769	0004862	0507	14801								
	OBS	0600	0481	34959	2769			14801								
	STO	0700	0473	3502	2774	0004462	0553	14815								
	OBS	0700	0473	35015	2774			14815								
	STO	0800	0475	3503	2775	0004494	0598	14832								
	OBS	0800	0475	35029	2775			14832								
	STO	0900	0435	3501	2777	0004281	0642	14832								
	OBS	0900	0435	35005	2777			14832								
	STO	1000	0418	3500	2779	0004208	0684	14842								
	OBS	1000	0418	35000	2779			14842								
	STO	1100	0408	3499	2779	0004254	0727	14854								
	OBS	1100	0408	34990	2779			14854								
	STO	1200	0394	3499	2780	0004186	0769	14865								
	OBS	1200	0394	34988	2780			14865								
	STO	1300	0384	3498	2781	0004209	0811	14877								
	OBS	1300	0384	34980	2781			14877								
	STO	1400	0383	3498	2781	0004284	0853	14894								
	OBS	1400	0383	34980	2781			14894								
	STO	1500	0373	3498	2782	0004241	0896	14906								
	OBS	1500	0373	34980	2782			14906								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°		MD.	DAY			HR.	1/10	CRUISE NO.		STATION NUMBER	DIR.	
318016	EV		4410 N	04746 W	149 47 05 23	145	072	1967	9973		3840	15	24	12	2	X2	0 3	00571	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB														
DT	SD	25	S10	274	111	100	7	25											

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C
		STD	0000	1263	3492	2643	0016119	0000	14995								
	072	OBS	0000	1263	34923	2643			14995								
		STD	0010	1360	3537	2657	0014732	0015	15035								
		OBS	0010	1360	35370	2657			15035								
		STD	0020	1383	3549	2662	0014338	0030	15046								
	003	OBS	0020	1383	35490	2662			15046								
		STD	0030	1382	3563	2673	0013321	0044	15049								
		OBS	0030	1382	35630	2673			15049								
		STD	0050	1331	3559	2680	0012671	0070	15035								
		OBS	0050	1331	35589	2680			15035								
		STD	0075	1275	3547	2682	0012567	0101	15018								
		OBS	0075	1275	35465	2682			15018								
		STD	0100	1250	3544	2685	0012358	0132	15014								
		OBS	0100	1250	35438	2685			15014								
		STD	0125	1230	3541	2687	0012253	0163	15011								
		OBS	0125	1230	35410	2687			15011								
		STD	0150	1183	3532	2689	0012137	0194	14997								
		OBS	0150	1183	35316	2689			14997								
		OBS	0185	1134	35318	2698			14986								
		STD	0200	1140	3537	2700	0011121	0252	14991								
		OBS	0200	1140	35365	2700			14991								
		STD	0250	1000	3524	2716	0009708	0304	14948								
		OBS	0250	1000	35242	2716			14948								
		STD	0300	0865	3516	2732	0008236	0349	14905								
		OBS	0300	0865	35160	2732			14905								
		STD	0400	0675	3499	2747	0006859	0424	14846								
		OBS	0400	0675	34993	2747			14846								
		STD	0500	0570	3501	2762	0005476	0486	14821								
		OBS	0500	0570	35010	2762			14821								
		STD	0600	0524	3503	2769	0004899	0538	14819								
		OBS	0600	0524	35026	2769			14819								
		STD	0700	0476	3501	2773	0004536	0585	14816								
		OBS	0700	0476	35010	2773			14816								
		STD	0800	0457	3501	2775	0004411	0630	14825								
		OBS	0800	0457	35010	2775			14825								
		STD	0900	0439	3501	2777	0004294	0673	14834								
		OBS	0900	0439	35010	2777			14834								
		STD	1000	0425	3501	2779	0004221	0716	14845								
		OBS	1000	0425	35010	2779			14845								
		STD	1100	0410	3500	2780	0004205	0758	14855								
		OBS	1100	0410	35000	2780			14855								
		STD	1200	0395	3499	2780	0004184	0800	14865								
		OBS	1200	0395	34990	2780			14865								
		STD	1300	0373	3497	2781	0004180	0842	14873								
		OBS	1300	0373	34965	2781			14873								
		STD	1400	0368	3496	2780	0004276	0884	14887								
		OBS	1400	0368	34955	2780			14887								
		STD	1500	0366	3496	2781	0004333	0927	14903								
		OBS	1500	0366	34955	2781			14903								

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	MARS SQUARE 10° 1°	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
318016	EV		44255N	04908 W	149 49 05 23	145	1967		9974		0064	01	08	3	2		06	0 3	00581
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB														
DT	SD	08	S15	207	056	056	5							09					

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C
		STD	0000	0560	3267	2578	0022216	0000	14704								
	145	OBS	0000	0560	32669	2578			14704								
		OBS	0006	0557	32688	2580			14704								
		STD	0010	0495	3269	2587	0021362	0022	14679								
	000	OBS	0010	0495	32690	2587			14679								
		STD	0020	0295	3278	2614	0018816	0042	14597								
		OBS	0020	0295	32780	2614			14597								
		STD	0030	0120	3290	2636	0016694	0060	14523								
		OBS	0030	0120	32895	2636			14523								
		OBS	0035	0115	33090	2652			14524								
		OBS	0040	0054	33097	2657			14498								
		STD	0050	0051	3310	2657	0014778	0091	14498								
		OBS	0050	0051	33095	2657			14498								
		OBS	0055	0050	33094	2657			14498								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318016	EV		4424 N	049005W		149	49	05	23	152	1967		9975	0165	02	08	3	2		06	03	0059
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
COLOR CODE	TRANSL.	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
DT	SD	08	S15	207	056	056	5	11														
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STO	0000	0505	3273	2589	0021165	0000	14682													
	152	OBS	0000	0505	32729	2589			14682													
		OBS	0001	0435	32710	2595			14653													
		STO	0010	0295	3269	2607	0019492	0020	14594													
	000	OBS	0010	0295	32690	2607			14594													
		STO	0020	0184	3272	2618	0018474	0039	14548													
		OBS	0020	0184	32715	2618			14548													
		STO	0030	0150	3288	2633	0016996	0057	14536													
		OBS	0030	0150	32880	2633			14536													
		OBS	0045	0034	32940	2645			14487													
		STO	0050	0033	3297	2647	0015638	0090	14488													
		OBS	0050	0033	32970	2647			14488													
		STO	0075	0028	3298	2649	0015531	0129	14490													
		OBS	0075	0028	32980	2649			14490													
		STO	0100	0019	3298	2649	0015458	0167	14490													
		OBS	0100	0019	32983	2649			14490													
		STO	0125	0012	3298	2650	0015424	0206	14491													
		OBS	0125	0012	32982	2650			14491													
		STO	0150	0006	3300	2651	0015250	0244	14493													
		OBS	0155	0005	33000	2651			14493													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		44225N	048525W		149	48	05	23	160	1967		9976	0805	08	08	1	4		05	03	0060	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. MM	DIR.	SPEED OF FORCE		DRY BULB		WET BULB															
QT		SD	00	S00		207		056		056		3		21									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY		D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C		
		STO	0000	0349	3281	2612		0019039		0000		14617											
	160	OBS	0000	0349	32810	2612						14617											
		STO	0010	0250	3284	2622		0018039		0019		14577											
		OBS	0010	0250	32835	2622						14577											
		STO	0020	0070	3287	2637		0016598		0036		14499											
	001	OBS	0020	0070	32870	2637						14499											
		STO	0030	-0025	3297	2650		0015377		0052		14458											
		OBS	0030	-0025	32970	2650						14458											
		STO	0050	-0078	3302	2656		0014781		0082		14438											
		OBS	0050	-0078	33020	2656						14438											
		OBS	0060	-0114	33060	2661						14423											
		STO	0075	-0104	3313	2666		0013845		0118		14431											
		OBS	0075	-0104	33129	2666						14431											
		STO	0100	-0065	3323	2672		0013237		0152		14455											
		OBS	0100	-0065	33225	2672						14455											
		OBS	0120	-0081	33250	2675						14451											
		STO	0125	-0075	3327	2676		0012843		0184		14455											
		OBS	0125	-0075	33270	2676						14455											
		STO	0150	-0045	3338	2684		0012116		0215		14474											
		OBS	0150	-0045	33380	2684						14474											
		STO	0200	0080	3373	2706		0010110		0271		14545											
		OBS	0200	0080	33730	2706						14545											
		STO	0250	0220	3418	2732		0007735		0316		14621											
		OBS	0250	0220	34180	2732						14621											
		OBS	0280	0408	34580	2747						14712											
		OBS	0290	0389	34619	2752						14707											
		STO	0300	0390	3463	2752		0005985		0350		14709											
		OBS	0300	0390	34629	2752						14709											
		STO	0400	0441	3490	2768		0004613		0403		14750											
		OBS	0400	0441	34900	2768						14750											
		STO	0500	0439	3491	2770		0004613		0449		14766											
		OBS	0500	0439	34911	2770						14766											
		STO	0600	0429	3491	2771		0004601		0495		14779											
		OBS	0600	0429	34911	2771						14779											
		STO	0700	0424	3491	2771		0004643		0541		14793											
		OBS	0700	0424	34911	2771						14793											
		OBS	0780	0422	34937	2773						14806											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			OBSERVATIONS					TYPE	AMT	
																	WATER	WIND	BARO- METER	AIR TEMP. °C				
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
		DT	SD	23	S05	163	078	078	3	30														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SIO ₄ -Si $\mu g \cdot dl/l$	pH	DOC							
		STD	0000	0272	3282	2619	0018320	0000	14584															
	170	OBS	0000	0272	32820	2619			14584															
		STD	0010	0179	3282	2627	0017641	0018	14545															
		OBS	0010	0179	32820	2627			14545															
	003	STD	0020	0130	3283	2631	0017250	0035	14525															
		OBS	0020	0130	32830	2631			14525															
		STD	0030	0058	3286	2637	0016609	0052	14495															
		OBS	0030	0058	32860	2637			14495															
		STD	0050	-0134	3300	2657	0014759	0084	14411															
		OBS	0050	-0134	33000	2657			14411															
		STD	0075	-0139	3311	2665	0013899	0120	14414															
		OBS	0075	-0139	33108	2665			14414															
		STD	0100	-0112	3319	2671	0013337	0154	14432															
		OBS	0100	-0112	33190	2671			14432															
		STD	0125	-0025	3344	2688	0011757	0185	14480															
		OBS	0125	-0025	33440	2688			14480															
		STD	0150	0048	3360	2697	0010908	0213	14520															
		OBS	0150	0048	33600	2697			14520															
		STD	0200	0145	3388	2714	0009408	0264	14576															
		OBS	0200	0145	33880	2714			14576															
		STD	0250	0263	3431	2739	0007121	0305	14642															
		OBS	0250	0263	34310	2739			14642															
		STD	0300	0410	3462	2750	0006263	0339	14717															
		OBS	0300	0410	34620	2750			14717															
		OBS	0301	0434	34650	2749			14728															
		OBS	0310	0399	34650	2753			14714															
		OBS	0330	0445	34761	2757			14739															
		OBS	0340	0410	34740	2759			14725															
		OBS	0350	0459	34820	2760			14748															
		OBS	0375	0432	34785	2760			14741															
		STD	0400	0434	3480	2761	0005295	0397	14746															
		OBS	0400	0434	34798	2761			14746															
		STD	0500	0464	3497	2771	0004472	0445	14777															
		OBS	0500	0464	34969	2771			14777															
		STD	0600	0450	3495	2771	0004550	0491	14788															
		OBS	0600	0450	34951	2771			14788															
		STD	0700	0439	3498	2775	0004294	0535	14800															
		OBS	0700	0439	34982	2775			14800															
		STD	0800	0421	3495	2774	0004432	0578	14809															
		OBS	0800	0421	34948	2774			14809															
		STD	0900	0412	3495	2775	0004422	0623	14822															
		OBS	0900	0412	34948	2775			14822															
		STD	1000	0404	3494	2776	0004479	0667	14835															
		OBS	1000	0404	34940	2776			14835															
		STD	1100	0402	3494	2776	0004555	0712	14851															
		OBS	1100	0402	34939	2776			14851															
		STD	1200	0394	3494	2777	0004525	0758	14864															
		OBS	1200	0394	34942	2777			14864															
		STD	1300	0394	3494	2777	0004615	0803	14881															
		OBS	1300	0394	34942	2777			14881															
		STD	1400	0390	3495	2778	0004601	0850	14896															
		OBS	1400	0390	34949	2778			14896															
		STD	1500	0385	3495	2778	0004624	0896	14911															
		OBS	1500	0385	34949	2778			14911															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10°	1°	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR			SEA		TYPE	AMT	
																10°		1°					MO
31	8016	EV	44175N	048255W	149	48	05	23	185	1967	9978	2606	15	24	3	2	06	0	3	0062			
		WATER		WIND		BARO- METER (mbst)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB														
		DT	SD	26	512	200	078	078	3	38													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH							
		STD	0000	0279	3291	2626	0017702	0000	14589														
185		OBS	0000	0279	32909	2626			14589														
		STD	0010	0185	3295	2636	0016695	0017	14550														
		OBS	0010	0185	32950	2636			14550														
		STD	0020	0140	3302	2645	0015868	0033	14532														
002		OBS	0020	0140	33020	2645			14532														
		STD	0030	0010	3311	2660	0014471	0049	14476														
		OBS	0030	0010	33109	2660			14476														
		OBS	0040	0001	33210	2668			14475														
		OBS	0042	-0039	33240	2673			14457														
		STD	0050	-0001	3327	2673	0013186	0076	14477														
		OBS	0050	-0001	33270	2673			14477														
		OBS	0060	-0045	33350	2682			14459														
		OBS	0069	0069	33390	2679			14513														
		STD	0075	-0021	3342	2686	0011927	0108	14474														
		OBS	0075	-0021	33422	2686			14474														
		STD	0100	0050	3366	2702	0010467	0136	14514														
		OBS	0100	0050	33660	2702			14514														
		OBS	0110	0159	33830	2709			14567														
		OBS	0120	0113	33870	2715			14548														
		STD	0125	0200	3401	2720	0008808	0160	14590														
		OBS	0125	0200	34010	2720			14590														
		OBS	0127	0246	34110	2724			14611														
		OBS	0130	0149	34020	2725			14568														
		STD	0150	0356	3431	2730	0007908	0181	14665														
		OBS	0150	0356	34310	2730			14665														
		STD	0200	0455	3464	2746	0006499	0217	14720														
		OBS	0200	0455	34640	2746			14720														
		STD	0250	0549	3490	2756	0005694	0247	14770														
		OBS	0250	0549	34901	2756			14770														
		OBS	0260	0525	34880	2757			14762														
		OBS	0270	0539	34909	2758			14769														
		OBS	0281	0501	34850	2758			14755														
		STD	0300	0512	3489	2759	0005410	0275	14763														
		OBS	0300	0512	34888	2759			14763														
		OBS	0351	0441	34910	2769			14742														
		OBS	0380	0509	34980	2767			14776														
		STD	0400	0480	3493	2766	0004846	0326	14767														
		OBS	0400	0480	34929	2766			14767														
		OBS	0420	0456	34919	2768			14760														
		STD	0500	0459	3495	2770	0004562	0373	14775														
		OBS	0500	0459	34949	2770			14775														
		STD	0600	0437	3495	2773	0004404	0418	14782														
		OBS	0600	0437	34950	2773			14782														
		STD	0700	0428	3497	2775	0004260	0461	14795														
		OBS	0700	0428	34969	2775			14795														
		STD	0800	0435	3499	2776	0004305	0504	14815														
		OBS	0800	0435	34988	2776			14815														
		STD	0900	0416	3499	2778	0004174	0547	14824														
		OBS	0900	0416	34988	2778			14824														
		STD	1000	0401	3499	2780	0004088	0588	14834														
		OBS	1000	0401	34988	2780			14834														
		STD	1100	0390	3498	2780	0004142	0629	14846														
		OBS	1100	0390	34975	2780			14846														
		STD	1200	0385	3498	2780	0004169	0671	14861														
		OBS	1200	0385	34975	2780			14861														
		STD	1300	0383	3498	2781	0004233	0713	14877														
		OBS	1300	0383	34975	2781			14877														
		STD	1400	0380	3498	2781	0004282	0755	14892														
		OBS	1400	0380	34975	2781			14892														
		STD	1500	0371	3498	2782	0004251	0798	14905														
		OBS	1500	0371	34975	2782			14905														

REFERENCE		SHIP CODE	LATITUDE * 1°/10	LONGITUDE * 1°/10	DATE MO DAY HR.1/10	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	OIR			HGT	PER	SEA	TYPE		AMT		
318016	EV	44145N	04806 W	149	48	05	23	200	1967		9979		3365	15	22	3	2		04	0	3		0063	
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	OIR	SPEED OF FORCE	DRY BULB	WET BULB													
						DT	SD	27	516	203	094	094	2					45						
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	Σ CC						
		STD	0000	0497	3317	2625	0017768		0000	14685														
	200	OBS	0000	0497	33170	2625				14685														
		STD	0010	0470	3315	2627	0017645		0018	14675														
		OBS	0010	0470	33150	2627				14675														
		STD	0020	0355	3321	2643	0016094		0035	14629														
	002	OBS	0020	0355	33209	2643				14629														
		STD	0030	0250	3316	2648	0015586		0050	14584														
		OBS	0030	0250	33160	2648				14584														
		OBS	0032	0205	33210	2656				14566														
		OBS	0036	0275	33380	2664				14599														
		OBS	0038	0230	33440	2672				14581														
		OBS	0040	0290	33485	2671				14608														
		OBS	0043	0246	33505	2676				14589														
		OBS	0046	0280	33570	2678				14606														
		STD	0050	0252	3355	2679	0012660		0079	14594														
		OBS	0050	0252	33550	2679				14594														
		OBS	0062	0321	33680	2684				14627														
		OBS	0065	0300	33670	2685				14619														
		STD	0075	0378	3383	2690	0011662		0109	14656														
		OBS	0075	0378	33831	2690				14656														
		OBS	0090	0409	34050	2704				14674														
		STD	0100	0385	3410	2711	0009727		0136	14667														
		OBS	0100	0385	34100	2711				14667														
		OBS	0116	0269	34110	2722				14620														
		STD	0125	0321	3423	2727	0008201		0158	14645														
		OBS	0125	0321	34225	2727				14645														
		STD	0150	0440	3454	2740	0007034		0177	14704														
		OBS	0150	0440	34540	2740				14704														
		OBS	0185	0439	34610	2746				14710														
		STD	0200	0395	3461	2750	0006087		0210	14694														
		OBS	0200	0395	34610	2750				14694														
		OBS	0211	0449	34680	2750				14719														
		OBS	0216	0409	34670	2754				14703														
		OBS	0225	0450	34730	2754				14723														
		OBS	0234	0431	34710	2754				14716														
		OBS	0245	0490	34820	2757				14744														
		STD	0250	0476	3480	2757	0005591		0239	14739														
		OBS	0250	0476	34800	2757				14739														
		OBS	0280	0380	34713	2760				14702														
		STD	0300	0390	3475	2762	0005087		0266	14710														
		OBS	0300	0390	34749	2762				14710														
		OBS	0370	0487	34950	2767				14765														
		OBS	0380	0470	34929	2767				14759														
		OBS	0395	0540	35039	2768				14792														
		STD	0400	0520	3499	2766	0004907		0316	14784														
		OBS	0400	0520	34985	2766				14784														
		OBS	0420	0510	35007	2769				14784														
		STD	0500	0480	3499	2771	0004506		0363	14784														
		OBS	0500	0480	34990	2771				14784														
		STD	0600	0451	3499	2774	0004272		0407	14789														
		OBS	0600	0451	34990	2774				14789														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT.		PER	SEA		TYPE
318016	EV		4412 N	04758 W	149	47	05	23	232	1967		9980	3713	11	21	3	2		02	7	8	0064
					WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB		WET BULB												
					02	508	213	067	067	6	10											
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ⁷	$\Sigma \Delta$ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH						
		STD	0000	0706	3356	2630																
	241	OBS	0000	0706	33556	2630		0017351	0000	14774												
		STD	0010	0836	3402	2647		0015700	0017	14832												
		STD	0020	0948	3442	2661		0014443	0032	14881												
		STD	0030	1043	3475	2670		0013564	0046	14921												
		STD	0050	1180	3521	2681		0012609	0072	14979												
	241	OBS	0070	1248	35397	2682				15008												
		STD	0075	1247	3536	2680		0012807	0104	15008												
	241	OBS	0095	1235	35252	2674				15005												
		STD	0100	1227	3527	2676		0013159	0136	15004												
		STD	0125	1186	3534	2690		0011952	0167	14995												
	241	OBS	0141	1159	35358	2696				14988												
		STD	0150	1152	3535	2697		0011324	0196	14987												
	241	OBS	0191	1072	35246	2704				14964												
		STD	0200	1013	3517	2708		0010345	0251	14944												
		STD	0250	0765	3490	2727		0008569	0298	14856												
	241	OBS	0267	0712	34856	2731				14837												
		STD	0300	0709	3494	2738		0007564	0338	14843												
	241	OBS	0354	0690	35040	2748				14845												
		STD	0400	0626	3500	2754		0006144	0407	14827												
		STD	0500	0526	3495	2763		0005364	0464	14802												
	241	OBS	0541	0499	34946	2765				14798												
		STD	0600	0497	3498	2768		0004898	0516	14807												
		STD	0700	0493	3501	2771		0004741	0564	14823												
	241	OBS	0737	0491	35020	2772				14828												
		STD	0800	0482	3501	2772		0004738	0611	14835												
		STD	0900	0462	3499	2773		0004728	0659	14843												
		STD	1000	0433	3497	2775		0004601	0705	14848												
	241	OBS	1073	0408	34958	2777				14849												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT.	PER	
318016	EV	44255N	04908 W	149	49	05	24	064	1967	9981	0064	01	34	3	2		X6	5	8	0065
					WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB									
							33	S10	247	056	056	6	04							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\times 10^3$		Δ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH		
		STD	0000	0531	3269	2583		0021760		0000	14692									
	064	OBS	0000	0531	32687	2583					14692									
		STD	0010	0530	3268	2583		0021805		0022	14693									
	064	OBS	0011	0530	32680	2583					14693									
		STD	0020	0356	3274	2606		0019641		0043	14623									
	064	OBS	0027	0248	32795	2619					14578									
		STD	0030	0209	3282	2624		0017854		0061	14562									
		STD	0050	0061	3303	2651		0015327		0094	14502									
	064	OBS	0054	0055	33082	2655					14500									

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						WATER		WIND		BARO- METER		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
		COLOR	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB															
318016		EV	4424 N	049005W		149	49	05	24	074	1967		9982	0165	01	03	2	2		X6	5	8	0066
								03	510	254	044	044	6	06									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C						
		STD	0000	0356	3277	2608	0019433	0000	14620														
	074	OBS	0000	0356	32766	2608			14620														
		STD	0010	0275	3279	2617	0018575	0019	14587														
		STD	0020	0198	3283	2626	0017698	0037	14555														
	074	OBS	0025	0162	32844	2630			14540														
		STD	0030	0117	3287	2635	0016866	0054	14521														
		STD	0050	-0003	3295	2648	0015619	0087	14471														
	074	OBS	0051	-0006	32951	2648			14470														
		STD	0075	-0010	3296	2648	0015533	0126	14472														
	074	OBS	0076	-0011	32956	2648			14472														
		STD	0100	-0042	3297	2651	0015278	0164	14462														
	074	OBS	0102	-0045	32979	2652			14461														
		STD	0125	-0074	3311	2663	0014070	0201	14453														
	074	OBS	0127	-0077	33127	2665			14452														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318016	EV		44225N	048525W		149	48	05	24	085	1967		9983	0818	08	34	2	3		X2	7	8	0067
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)		DIR.		SPEED OF FORCE		DRY BULB			WET BULB												
								02		507	268	044	028	7	10								
MESSAGE TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C				
		STD	0000	0333	3277	2610		0019201		0000	14610												
	085	OBS	0000	0333	32770	2610					14610												
		STD	0010	0317	3279	2613		0018919		0019	14605												
		STD	0020	0270	3281	2619		0018387		0038	14587												
	085	OBS	0025	0234	32823	2623					14572												
		STD	0030	0155	3284	2630		0017333		0056	14538												
		STD	0050	-0072	3292	2648		0015568		0088	14439												
	085	OBS	0051	-0080	32922	2649					14435												
		STD	0075	-0150	3302	2659		0014545		0126	14408												
	085	OBS	0076	-0151	33022	2659					14408												
		STD	0100	-0133	3310	2665		0013961		0162	14421												
	085	OBS	0102	-0131	33108	2665					14423												
		STD	0125	-0105	3314	2667		0013728		0196	14439												
		STD	0150	-0069	3326	2675		0012932		0230	14462												
	085	OBS	0153	-0064	33284	2677					14465												
		STD	0200	0031	3381	2715		0009212		0285	14524												
	085	OBS	0202	0035	33834	2717					14526												
		STD	0250	0170	3417	2735		0007414		0327	14599												
		STD	0300	0286	3447	2750		0006156		0361	14662												
		STD	0400	0440	3487	2766		0004825		0415	14749												
	085	OBS	0407	0447	34889	2767					14754												
		STD	0500	0433	3490	2769		0004626		0463	14763												
		STD	0600	0422	3490	2770		0004601		0509	14775												
	085	OBS	0615	0421	34904	2771					14778												
		STD	0700	0416	3491	2772		0004594		0555	14790												
	085	OBS	0766	0415	34905	2772					14800												

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT				
318016	EV		4420 N	048395W		149	48	05	24	101	1967		9984	2158	11	32	2	4		X2	7	8		0068			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB			WET BULB																
						00		500		271		044		039		7		12									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-x10 ³		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH								
		STD	0000		3273																						
	101	OBS	0000		32734																						
		STD	0010		3279																						
		STD	0020		3284																						
	101	OBS	0025	0029	32860	2639						14481															
		STD	0030	-0016	3288	2643	0016103					14461															
		STD	0050	-0131	3297	2654	0015020					14412															
	101	OBS	0050	-0131	32967	2654						14412															
		STD	0075	-0125	3313	2667	0013763					14421															
	101	OBS	0075	-0125	33131	2667						14421															
		STD	0100	-0108	3320	2672	0013243					14434															
	101	OBS	0100	-0108	33204	2672						14434															
		STD	0125	-0048	3335	2682	0012342					14468															
	101	OBS	0149	0011	33526	2693						14502															
		STD	0150	0014	3354	2694	0011180					14504															
		STD	0200	0142	3399	2723	0008524					14576															
	101	OBS	0200	0142	33994	2723						14576															
		STD	0250	0305	3441	2743	0006749					14661															
		STD	0300	0405	3469	2755	0005702					14716															
	101	OBS	0300	0405	34688	2755						14716															
		STD	0400	0418	3481	2764	0005050					14739															
	101	OBS	0400	0418	34807	2764						14739															
		STD	0500	0434	3487	2767	0004861					14763															
	101	OBS	0598	0438	34907	2769						14782															
		STD	0600	0438	3491	2769	0004735					14782															
		STD	0700	0420	3491	2771	0004640					14791															
	101	OBS	0795	0408	34902	2772						14802															
		STD	0800	0408	3490	2772	0004617					14803															
		STD	0900	0405	3491	2773	0004614					14818															
		STD	1000	0403	3492	2774	0004609					14834															
	101	OBS	1097	0400	34929	2775						14849															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH FOOT	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT	
318016	EV		44175N	04826 W		149	48	05	24	123	1967		9985	3072	11	00	0	0		X2	7	8		0069
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																		
				00	500	284	044	039	6	12														
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C							
		STD	0000	0310	3283	2617	0018530	0000	14601															
123		OBS	0000	0310	32833	2617			14601															
		STD	0010	0266	3285	2622	0018049	0018	14584															
		STD	0020	0216	3289	2629	0017372	0036	14564															
123		OBS	0025	0188	32912	2633			14553															
		STD	0030	0146	3294	2638	0016515	0053	14535															
		STD	0050	0025	3308	2657	0014752	0084	14486															
123		OBS	0050	0025	33081	2657			14486															
123		OBS	0074	-0025	33341	2680			14471															
		STD	0075	-0020	3335	2681	0012481	0118	14473															
		STD	0100	0105	3364	2697	0010929	0148	14538															
123		OBS	0100	0105	33642	2697			14538															
		STD	0125	0246	3403	2718	0009021	0172	14610															
123		OBS	0149	0342	34301	2731			14659															
		STD	0150	0344	3431	2732	0007794	0193	14660															
123		OBS	0199	0421	34577	2745			14704															
		STD	0200	0421	3458	2745	0006583	0229	14705															
		STD	0250	0420	3463	2749	0006247	0261	14713															
		STD	0300	0419	3471	2755	0005717	0291	14722															
123		OBS	0300	0419	34706	2755			14722															
		STD	0400	0538	3492	2758	0005648	0348	14790															
123		OBS	0401	0539	34917	2758			14791															
		STD	0500	0505	3493	2764	0005246	0403	14794															
		STD	0600	0471	3495	2769	0004845	0453	14796															
123		OBS	0603	0470	34945	2769			14796															
		STD	0700	0434	3492	2770	0004731	0501	14797															
		STD	0800	0406	3488	2771	0004736	0548	14802															
123		OBS	0806	0405	34881	2771			14802															
		STD	0900	0387	3488	2772	0004656	0595	14810															
		STD	1000	0377	3487	2773	0004663	0642	14823															
		STD	1100	0376	3487	2773	0004774	0689	14839															
123		OBS	1111	0376	34865	2773			14841															

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REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER							
CITY CODE	ID. ND.					10"	1"	MD	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT				
318016	EV		44145N	04807 W		149	48	05	24	138	1967		9986	3475	11	33	2	3		X2	6	8		0070				
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																					
								32		509		291		050		044		6		14								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C								
		STD	0000	0354	3291	2619		0018336		0000		14621																
138		OBS	0000	0354	32909	2619						14621																
		STD	0010	0354	3309	2634		0016980		0018		14625																
		STD	0020	0355	3321	2643		0016085		0034		14629																
138		OBS	0024	0355	33237	2645						14630																
		STD	0030	0211	3323	2657		0014762		0050		14568																
		STD	0050	-0029	3321	2669		0013557		0078		14463																
138		OBS	0050	-0029	33205	2669						14463																
138		OBS	0074	0174	33527	2683						14563																
		STD	0075	0174	3353	2684		0012234		0110		14563																
138		OBS	0099	0173	33688	2696						14569																
		STD	0100	0179	3370	2697		0010989		0139		14572																
		STD	0125	0305	3402	2712		0009600		0165		14635																
138		OBS	0148	0390	34245	2722						14679																
		STD	0150	0394	3426	2723		0008658		0188		14681																
138		OBS	T0197	0474	34539	2736						14726																
		STD	0200	0479	3456	2737		0007363		0228		14729																
		STD	0250	0537	3477	2747		0006526		0263		14763																
138		OBS	0294	0544	34870	2754						14775																
		STD	0300	0534	3486	2755		0005882		0294		14772																
138		OBS	T0387	0424	34806	2763						14740																
		STD	0400	0428	3482	2763		0005064		0348		14744																
		STD	0500	0450	3491	2768		0004748		0397		14771																
138		OBS	T0577	0455	34947	2771						14786																
		STD	0600	0450	3495	2771		0004579		0444		14788																
		STD	0700	0430	3495	2773		0004461		0489		14796																
138		OBS	T0773	0417	34944	2775						14803																
		STD	0800	0413	3494	2775		0004396		0533		14805																
		STD	0900	0399	3494	2776		0004325		0577		14816																
		STD	1000	0387	3494	2777		0004273		0620		14828																
138		OBS	1074	0381	34935	2778						14838																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		4412 N	04759 W		149	47	05	24	159	1967		9987	3749	05	34	2	2		X2	6	8	0071
WATER						WIND		BARO- METER (mbars)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																		
					36	S16			284	050	044	6	10										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
		STD	0000	1374	3541	2658	0014687		0000	15038													
159		OBS	0000	1374	35410	2658				15038													
		STD	0010	1375	3541	2657	0014738		0015	15040													
159		OBS	0018	1376	35410	2657				15042													
		STD	0020	1375	3544	2660	0014535		0029	15042													
		STD	0030	1367	3555	2670	0013613		0043	15043													
159		OBS	0037	1362	35565	2672				15042													
		STD	0050	1267	3540	2679	0012825		0070	15011													
159		OBS	0056	1241	35356	2680				15002													
		STD	0075	1234	3536	2682	0012571		0102	15003													
159		OBS	0076	1234	35362	2682				15003													
		STD	0100	1226	3534	2682	0012627		0133	15004													
159		OBS	0114	1215	35330	2683				15003													
		STD	0125	1201	3532	2685	0012375		0164	15000													
		STD	0150	1167	3530	2690	0011962		0195	14992													
159		OBS	0154	1161	35298	2691				14990													
		STD	0200	1091	3526	2701	0011021		0252	14973													
159		OBS	0233		35169																		
		STD	0250	1006	3504	2699	0011295		0308	14948													
		STD	0300	0911	3474	2692	0012056		0366	14917													
159		OBS	0315		34678																		
		STD	0400	0691	3476	2726	0008843		0471	14849													
159		OBS	0483	0479	34831	2759				14779													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	B016	EV	4410 N	04746 W		149	47	05	24	177	1967	9988		3804	11	34	3	2		X2	6	8	0072
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									36	S14	281	072	067	7	11								
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE						
		STD	0000	1360	3539	2659	0014572	0000	15033														
177		OBS	0000	1360	35388	2659			15033														
		STD	0010	1355	3539	2660	0014506	0015	15034														
		STD	0020	1350	3539	2661	0014432	0029	15034														
		STD	0030	1346	3539	2662	0014366	0043	15034														
		STD	0050	1336	3539	2664	0014226	0072	15034														
177		OBS	0050	1336	35390	2664			15034														
177		OBS	0074	1358	35547	2672			15047														
		STD	0075	1355	3554	2672	0013572	0107	15046														
		STD	0100	1299	3549	2679	0012949	0140	15031														
177		OBS	0100	1299	35485	2679			15031														
		STD	0125	1258	3541	2681	0012781	0172	15020														
177		OBS	0149	1227	35380	2685			15013														
		STD	0150	1227	3538	2685	0012475	0204	15013														
177		OBS	0199	1191	35438	2696			15010														
		STD	0200	1188	3543	2696	0011519	0264	15009														
		STD	0250	1031	3527	2713	0010026	0317	14960														
		STD	0300	0896	3512	2724	0008995	0365	14916														
177		OBS	T0300	0896	35123	2724			14916														
		STD	0400	0691	3488	2736	0007932	0450	14851														
177		OBS	0400	0691	34878	2736			14851														
		STD	0500	0565	3491	2755	0006168	0520	14818														
		STD	0600	0481	3494	2767	0005011	0576	14800														
177		OBS	0601	0480	34939	2767			14800														
		STD	0700	0459	3494	2770	0004850	0625	14808														
		STD	0800	0438	3494	2772	0004701	0673	14816														
177		OBS	T0802	0438	34941	2772			14816														
		STD	0900	0424	3495	2774	0004582	0720	14827														
		STD	1000	0415	3495	2775	0004532	0765	14840														
		STD	1100	0410	3496	2776	0004522	0810	14854														
177		OBS	1104	0410	34957	2776			14855														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	B016	EV	4616 N	04740 W		149	67	05	30	131	1967		9989		0179	02	24	4	3		04	7	8		0073
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB		WET BULB		CODE									
									28	S20	014	044	044	2	09										
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CODE				
		STD	0000	0169	3274	2621		0018173		0000		14538													
131		OBS	0000	0169	32741	2621						14538													
		STD	0010	0164	3275	2622		0018096		0018		14537													
131		OBS	0010	0164	32747	2622						14537													
		STD	0020	0143	3277	2625		0017787		0036		14530													
		STD	0030	0122	3279	2628		0017482		0054		14523													
131		OBS	0030	0122	32793	2628						14523													
131		OBS	0041	-0032	32911	2646						14456													
		STD	0050	-0056	3295	2650		0015398		0087		14447													
131		OBS	0052	-0062	32961	2651						14445													
		STD	0075	-0135	3305	2661		0014355		0124		14415													
131		OBS	0077	-0137	33056	2661						14415													
		STD	0100	-0100	3322	2673		0013147		0158		14438													
131		OBS	0103	-0095	33235	2674						14441													
		STD	0125	-0038	3337	2683		0012232		0190		14473													
		STD	0150	-0003	3345	2688		0011779		0220		14495													
131		OBS	0153	-0001	33458	2688						14496													
131		OBS	0169	0003	33472	2689						14501													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016		EV	4618 N	04740 W		149	67	05	30	138	1967		9990	0174	02	24	5	3		04	7	8	0074
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
						28	S20	014	050	044	4	07											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CLD						
		STD	0000	0167	3275	2622	0018115	0000	14537														
138		OBS	0000	0167	32747	2622			14537														
		STD	0010	0088	3276	2628	0017536	0018	14504														
		STD	0020	0025	3278	2633	0017056	0035	14477														
138		OBS	0024	0004	32789	2634			14468														
		STD	0030	-0018	3282	2638	0016553	0052	14459														
		STD	0050	-0073	3292	2648	0015572	0084	14439														
138		OBS	0050	-0073	32919	2648			14439														
138		OBS	0074	-0104	33071	2661			14430														
		STD	0075	-0103	3308	2662	0014223	0121	14431														
138		OBS	0099	-0074	33237	2674			14451														
		STD	0100	-0072	3324	2674	0013096	0155	14452														
		STD	0125	-0028	3338	2683	0012201	0187	14478														
138		OBS	0148	-0007	33438	2687			14492														
		STD	0150	-0006	3344	2687	0011855	0217	14493														
138		OBS	0164	-0003	33439	2687			14497														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318016		EV	4618 N	04738 W		149	67	05	30	145	1967		9991	0183	02	24	5	3		X4	7	8	0075
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
						28	S20	990	050	044	6	07											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	CLD						
		STD	0000		3273																		
145		OBS	0000	01720	32730	26200																	
		STD	0010		3276																		
		STD	0020		3280																		
145		OBS	0025	0037	32830	2636			14484														
		STD	0030	-0014	3287	2642	0016188		14462														
		STD	0050	-0144	3301	2658	0014655		14406														
145		OBS	0051	-0148	33020	2659			14405														
		STD	0075	-0145	3312	2667	0013791		14412														
145		OBS	0076	-0144	33126	2667			14412														
		STD	0100	-0098	3326	2676	0012848		14440														
145		OBS	0102	-0094	33270	2677			14442														
		STD	0125	-0062	3338	2685	0012054		14462														
		STD	0150	-0006	3345	2688	0011764		14493														
145		OBS	T0152	0000	33455	2688			14497														
145		OBS	0168	0050	33478	2687			14522														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER			
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT			
318016	EV		4616 N	04738 W		149	67	05	30	152	1967	9992	0201	02	24	5	2		X4	7 8	0076		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB											
								28 <td>522</td> <td>030</td> <td>050</td> <td>044</td> <td>6</td> <td>07</td> <th colspan="4"></th> <th colspan="4"></th>		522	030	050	044	6	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
		STD	0000	0173	3274	2620		0018238		0000	14540												
152	OBS	0000	0173	32736	2620						14540												
	STD	0010	0058	3280	2633		0017070		0018	14491													
	STD	0020	-0032	3286	2642		0016194		0034	14452													
152	OBS	0026	-0074	32900	2647					14434													
	STD	0030	-0092	3293	2650		0015434		0050	14426													
	STD	0050	-0149	3305	2661		0014335		0080	14405													
152	OBS	0052	-0152	33061	2662					14404													
	STD	0075	-0137	3314	2668		0013660		0115	14416													
152	OBS	0078	-0132	33151	2669					14419													
	STD	0100	-0078	3330	2679		0012614		0148	14450													
152	OBS	0104	-0069	33325	2681					14455													
	STD	0125	-0022	3341	2686		0011999		0178	14481													
	STD	0150	0016	3351	2692		0011418		0208	14504													
152	OBS	T0155	0022	33524	2693					14508													
152	OBS	0191	0040	33625	2700					14524													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CRUISE CODE	10. NO.					10°	1°	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318016	EV		4612 N	04720 W		149	67	05	31	198	1967	9993	0686	06	34	7	2		X2	7	8	0077	
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
										34	524	078	028	028	6	09							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C				
		STD	0000	0102	3282	2631		0017175		0000	14509												
198		OBS	0000	0102	32818	2631					14509												
		STD	0010	0093	3293	2641		0016269		0017	14508												
		STD	0020	0084	3301	2648		0015607		0033	14507												
198		OBS	0025	0079	33049	2651					14506												
		STD	0030	0051	3306	2654		0015048		0048	14494												
		STD	0050	-0029	3315	2665		0013978		0077	14462												
198		OBS	0051	-0032	33159	2666					14461												
		STD	0075	-0053	3334	2681		0012416		0110	14458												
198		OBS	0077	-0055	33358	2683					14457												
		STD	0100	0040	3361	2699		0010792		0139	14508												
198		OBS	0103	0051	33641	2700					14514												
		STD	0125	0124	3389	2716		0009174		0164	14554												
		STD	0150	0196	3413	2730		0007880		0185	14594												
		STD	0200	0306	3450	2750		0006047		0220	14655												
198		OBS	T0204	0313	34520	2751					14659												
		STD	0250	0354	3465	2758		0005418		0249	14686												
		STD	0300	0388	3476	2763		0004984		0275	14710												
198		OBS	0306	0391	34766	2763					14712												
		STD	0400	0417	3485	2767		0004718		0323	14740												
198		OBS	T0407	0418	34852	2767					14741												
		STD	0500	0410	3487	2769		0004602		0370	14753												
		STD	0600	0401	3489	2772		0004464		0415	14766												
198		OBS	T0642	0397	34893	2773					14772												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																															
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT		PER	SEA	TYPE	AMT																											
318016	EV		4614 N	04716 W	149	67	05	31	208	1967		9994	0612	06	32	3	2		X1	6	3		0078																											
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS. CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OR FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td></td><td></td><td></td><td>32</td><td>519</td><td>105</td><td>028</td><td>022</td><td>7</td><td>09</td><td></td></tr></table>																								WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB				32	519	105	028	022	7	09	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																									
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																												
			32	519	105	028	022	7	09																																									

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CODE
		STD	0000	0114	3280	2629	0017381	0000	14514								
208		OBS	0000	0114	32800	2629			14514								
		STD	0010	0083	3291	2640	0016366	0017	14503								
		STD	0020	0051	3299	2648	0015583	0033	14492								
208		OBS	0024	0039	33021	2651			14487								
		STD	0030	0020	3305	2655	0014969	0048	14480								
		STD	0050	-0040	3314	2665	0014016	0077	14457								
208		OBS	0050	-0040	33139	2665			14457								
208		OBS	0074	-0106	33221	2674			14431								
		STD	0075	-0103	3323	2674	0013074	0111	14433								
		STD	0100	-0028	3342	2686	0011926	0142	14475								
208		OBS	0100	-0028	33417	2686			14475								
		STD	0125	0065	3373	2707	0010019	0170	14526								
		STD	0150	0146	3400	2723	0008496	0193	14570								
208		OBS	T0199	0270	34416	2747			14638								
		STD	0200	0271	3442	2747	0006334	0230	14639								
		STD	0250	0336	3461	2756	0005541	0260	14677								
		STD	0300	0382	3475	2763	0005011	0286	14707								
208		OBS	0300	0382	34748	2763			14707								
		STD	0400	0415	3487	2769	0004547	0334	14739								
208		OBS	T0403	0416	34875	2769			14740								
		STD	0500	0412	3489	2770	0004502	0379	14755								
208		OBS	T0577	0409	34893	2771			14766								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																													
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR	1/10	CRUISE NO.	STATION NUMBER		DIR	HGT		PER	SEA	TYPE	AMT																									
318016	EV		4614 N	04724 W	149	67	05	31	219	1967		9995	0421	04	31	3	2		X1	7	7		0079																										
<table><tr><th colspan="2">WATER</th><th colspan="2">WIND</th><th rowspan="2">BARO- METER (mb)</th><th colspan="2">AIR TEMP. °C</th><th rowspan="2">VIS. CODE</th><th rowspan="2">NO. OBS. DEPTHS</th><th rowspan="2">SPECIAL OBSERVATIONS</th></tr><tr><th>COLOR CODE</th><th>TRANS. (m)</th><th>DIR.</th><th>SPEED OR FORCE</th><th>DRY BULB</th><th>WET BULB</th></tr><tr><td></td><td></td><td></td><td>28</td><td>510</td><td>122</td><td>028</td><td>022</td><td>7</td><td>08</td><td></td></tr></table>																							WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB				28	510	122	028	022	7	08	
WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																								
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																																											
			28	510	122	028	022	7	08																																								

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO ₂ -N $\mu\text{g} \cdot \text{dl/l}$	NO ₃ -N $\mu\text{g} \cdot \text{dl/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CODE
		STD	0000	0101	3285	2634	0016933	0000	14509								
219		OBS	0000	0101	32849	2634			14509								
		STD	0010	0091	3288	2637	0016639	0017	14507								
		STD	0020	0077	3291	2640	0016332	0033	14502								
		STD	0030	0059	3294	2644	0016005	0049	14496								
219		OBS	0047	0020	33009	2651			14482								
		STD	0050	0010	3302	2653	0015145	0081	14478								
219		OBS	0071	-0054	33123	2664			14454								
		STD	0075	-0063	3313	2665	0013983	0117	14450								
219		OBS	0096	-0109	33216	2673			14433								
		STD	0100	-0116	3328	2679	0012635	0150	14432								
		STD	0125	-0158	3364	2709	0009735	0178	14421								
		STD	0150	-0197	3396	2736	0007163	0199	14411								
219		OBS	0192	-0257	34361	2769			14395								
		STD	0200	-0269	3440	2773	0003600	0226	14391								
		STD	0250	-0332	3460	2790	0001933	0240	14372								
219		OBS	0289	-0369	34722	2799			14362								
		STD	0300	-0377	3475	2802	0000693	0247	14361								
219		OBS	0389	-0412	34873	2812			14360								
		STD	0400	-0412	3487	2812	-0000391	0248	14362								
219		OBS	0406	-0412	34875	2812			14363								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
318016	EV		4609 N	04724 W		149	67	05	31	231	1967		9996		0786	06	32	3	2		X1	3	3	0080
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
									26	510	132			7	09									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C C					
		STD	0000	0118	3288	2635		0016834		0000	14517													
	231	OBS	0000	0118	32875	2635					14517													
		STD	0010	0120	3290	2637		0016672		0017	14520													
		STD	0020	0122	3292	2638		0016510		0033	14523													
	231	OBS	0024	0123	32930	2639					14524													
		STD	0030	0119	3301	2646		0015814		0050	14524													
		STD	0050	0069	3322	2665		0013962		0079	14508													
	231	OBS	0050	0069	33215	2665					14508													
	231	OBS	0074	-0069	33323	2681					14450													
		STD	0075	-0065	3333	2681		0012446		0112	14452													
		STD	0100	0034	3361	2699		0010729		0141	14506													
	231	OBS	0100	0034	33614	2699					14506													
		STD	0125	0133	3391	2717		0009082		0166	14559													
		STD	0150	0216	3416	2731		0007809		0187	14603													
	231	OBS	0197	0329	34515	2749					14664													
		STD	0200	0331	3452	2750		0006130		0222	14666													
		STD	0250	0358	3465	2757		0005458		0251	14687													
	231	OBS	0299	0377	34740	2762					14705													
		STD	0300	0377	3474	2763		0005013		0277	14705													
		STD	0400	0392	3483	2768		0004614		0325	14729													
	231	OBS	0403	0392	34830	2768					14729													
		STD	0500	0394	3488	2772		0004343		0370	14747													
		STD	0600	0397	3490	2773		0004315		0413	14765													
	231	OBS	0648	0398	34900	2773					14773													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318016	EV		4650 N	04736 W		149	67	06	04	232	1967		9997		0174	02	26	2	4		X1	3	2		0081
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mba)	DRY BULB	WET BULB													
									24	510	267	039	033	6	06										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C C					
		STD	0000	0186	3271	2617		0018530		0000		14545													
	232	OBS	0000	0186	32709	2617						14545													
		STD	0010	0166	3271	2619		0018393		0018		14538													
		STD	0020	0147	3273	2622		0018115		0037		14531													
	232	OBS	0025	0137	32755	2624						14528													
		STD	0030	0078	3281	2632		0017098		0054		14503													
		STD	0050	-0091	3299	2654		0014966		0086		14431													
	232	OBS	0051	-0097	32997	2655						14429													
		STD	0075	-0157	3307	2663		0014143		0123		14405													
	232	OBS	0076	-0158	33071	2663						14405													
		STD	0100	-0122	3318	2671		0013381		0157		14427													
	232	OBS	0102	-0119	33193	2672						14429													
		STD	0125	-0076	3331	2680		0012534		0190		14455													
		STD	0150	-0019	3343	2687		0011853		0220		14487													
	232	OBS	0157	-0002	33470	2689						14497													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INCH	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.								CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

318016	EV	4650 N	04722 W	149	67	06	05	006	1967	9998	0201	02	25	2	2		X0	0		0082
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB							
									24	S11	261	044	039	7	07					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	STATION
		STD	0000	0214	3263	2609	0019339	0000	14556								
	006	OBS	0000	0214	32628	2609			14556								
		STD	0010	0166	3287	2631	0017175	0018	14540								
		STD	0020	0123	3306	2650	0015458	0035	14525								
	006	OBS	0025	0104	33128	2656			14518								
		STD	0030	0093	3315	2659	0014591	0050	14514								
		STD	0050	0047	3327	2671	0013423	0078	14499								
	006	OBS	0051	-0093Q	33282	2678Q											
		STD	0075	-0011	3352	2694	0011227	0108	14480								
	006	OBS	0076	-0013	33532	2695			14479								
		STD	0100	0111	3386	2714	0009313	0134	14544								
	006	OBS	0102	0120	33880	2715			14549								
		STD	0125	0197	3415	2732	0007727	0155	14590								
		STD	0150	0260	3438	2745	0006511	0173	14625								
	006	OBS	T0156	0272	34420	2747			14632								
	006	OBS	0195	0319	34606	2757			14661								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INCH	MARSDEN SQUARE	STATION TIME (GMT)	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.								CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	

318016	EV	4650 N	04706 W	149	67	06	05	020	1967	9999	0850	08	25	3	2		X0	0		0083
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB							
									24	S06	261	044	039	7	11					

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	STATION
		STD	0000	0264	3299	2633	0016986	0000	14583								
	020	OBS	0000	0264	32988	2633			14583								
		STD	0010	0210	3305	2643	0016113	0017	14562								
		STD	0020	0172	3314	2653	0015167	0032	14548								
	020	OBS	0024	0161	33176	2656			14544								
		STD	0030	0158	3326	2663	0014166	0047	14545								
	020	OBS	0049	0150	33488	2682			14548								
		STD	0050	0143	3349	2683	0012322	0073	14545								
	020	OBS	0073	0055	33662	2702			14511								
		STD	0075	0060	3368	2703	0010372	0102	14514								
	020	OBS	0098	0115	33858	2714			14545								
		STD	0100	0119	3388	2716	0009213	0126	14548								
		STD	0125	0164	3413	2732	0007633	0147	14575								
	020	OBS	0148	0206	34312	2744			14600								
		STD	0150	0211	3432	2744	0006561	0165	14603								
	020	OBS	0197	0298	34513	2752			14651								
		STD	0200	0300	3452	2752	0005841	0196	14652								
		STD	0250	0334	3464	2759	0005297	0224	14677								
	020	OBS	T0298	0359	34721	2763			14697								
		STD	0300	0360	3472	2763	0004973	0250	14697								
	020	OBS	0395	0390	34822	2768			14727								
		STD	0400	0391	3482	2768	0004630	0298	14728								
		STD	0500	0406	3486	2769	0004598	0344	14752								
	020	OBS	T0589	0411	34897	2771			14769								
		STD	0600	0411	3490	2771	0004498	0389	14771								
		STD	0700	0405	3490	2772	0004518	0434	14785								
	020	OBS	T0751	0397	34899	2773			14790								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT HOURS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	8016	EV	4650 N	04651 W	149	66	06	05	033	1967		10000	1207	11	25	3	2		X0	0		0084
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB									
									24	504	261	039	033	6	12							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - 01/l	TOTAL-P µg - 01/l	NO ₃ -N µg - 01/l	NO ₃ -N µg - 01/l	SIO ₄ -Si µg - 01/l	pH	NOCC STATION NUMBER					
		STD	0000	0255	3323	2653	0015106	0000	14582													
033		OBS	0000	0255	33227	2653			14582													
		STD	0010	0221	3324	2657	0014761	0015	14569													
		STD	0020	0200	3325	2659	0014520	0030	14562													
033		OBS	0025	0194	33257	2660			14560													
		STD	0030	0198	3338	2670	0013529	0044	14564													
		STD	0050	0213	3384	2706	0010165	0067	14581													
033		OBS	0051	0214	33862	2707			14582													
		STD	0075	0364	3431	2730	0007924	0090	14656													
033		OBS	0076	0366	34323	2730			14658													
		STD	0100	0311	3433	2736	0007325	0109	14638													
033		OBS	0102	0307	34327	2736			14637													
		STD	0125	0293	3437	2741	0006854	0127	14635													
		STD	0150	0277	3442	2747	0006355	0143	14633													
033		OBS	0161	0270	34453	2750			14632													
		STD	0200	0311	3458	2756	0005492	0173	14658													
033		OBS	0204	0315	34592	2757			14661													
		STD	0250	0354	3469	2761	0005118	0199	14686													
		STD	0300	0387	3478	2765	0004824	0224	14710													
033		OBS	T0308	0391	34788	2765			14713													
		STD	0400	0418	3486	2768	0004655	0272	14740													
033		OBS	0406	0419	34861	2768			14742													
		STD	0500	0414	3487	2769	0004616	0318	14755													
		STD	0600	0409	3489	2771	0004560	0364	14770													
033		OBS	T0605	0409	34887	2771			14771													
		STD	0700	0398	3489	2772	0004495	0409	14782													
		STD	0800	0386	3489	2773	0004452	0454	14794													
033		OBS	T0801	0386	34894	2774			14794													
		STD	0900	0377	3490	2775	0004361	0498	14806													
		STD	1000	0370	3490	2776	0004366	0542	14820													
		STD	1100	0365	3491	2777	0004317	0585	14835													
033		OBS	1104	0365	34911	2777			14836													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT HOURS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	8016	EV	4650 N	04637 W	149	66	06	05	049	1967		10001	0860	08	25	3	2		X0	0		0085
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
									00	500	257	056	050	6	12							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - 01/l	TOTAL-P µg - 01/l	NO ₃ -N µg - 01/l	NO ₃ -N µg - 01/l	SiO ₄ -Si µg - 01/l	pH					
		STD	0000	0479	3336	2642	0016188		0000	14680												
049		OBS	0000	0479	33355	2642				14680												
		STD	0010	0467	3337	2644	0015960		0016	14676												
		STD	0020	0455	3345	2652	0015245		0032	14674												
049		OBS	0025	0449	33508	2657				14673												
		STD	0030	0388	3363	2673	0013235		0046	14650												
049		OBS	0049	0252	33996	2715				14600												
		STD	0050	0254	3401	2716	0009199		0068	14601												
		OBS	0073	0292	34244	2731				14624												
		STD	0075	0295	3426	2732	0007671		0089	14626												
049		OBS	0097	0323	34416	2742				14644												
		STD	0100	0324	3443	2743	0006667		0107	14645												
		STD	0125	0336	3451	2748	0006195		0123	14655												
049		OBS	0146	03330	34578	27540																
		STD	0150	0347	3459	2754	0005718		0138	14665												
049		OBS	0195	0370	34700	2760				14684												
		STD	0200	0373	3471	2761	0005114		0165	14686												
		STD	0250	0404	3478	2763	0004955		0191	14708												
049		OBS	T0292	0424	34828	2765				14724												
		STD	0300	0427	3484	2765	0004802		0215	14727												
049		OBS	0387	0450	34909	2768				14752												
		STD	0400	0446	3491	2769	0004610		0262	14752												
		STD	0500	0417	3490	2771	0004430		0307	14757												
049		OBS	T0574	0402	34897	2772				14763												
		STD	0600	0400	3490	2773	0004358		0351	14766												
		STD	0700	0393	3491	2774	0004313		0395	14780												
049		OBS	T0772	0387	34913	2775				14790												
		STD	0800	0384	3488	2773	0004502		0439	14792												
049		OBS	0805	0384	34872	2772				14793												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

MESSAGE TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SiO ₄ -Si $\mu g - \text{at/l}$	pH	S C
064		STD	0000	0497	3346	2648	0015605	0000		14688								
		OBS	0000	0497	33458	2648				14688								
		STD	0010	0499	3348	2649	0015474	0016		14691								
		STD	0020	0500	3350	2651	0015344	0031		14693								
064		OBS	0026	0501	33512	2652				14695								
		STD	0030	0473	3361	2663	0014239	0046		14685								
		STD	0050	0358	3398	2704	0010332	0070		14645								
064		OBS	0052	0349	33999	2706				14642								
		STD	0075	0280	3406	2718	0009051	0095		14617								
064		OBS	0078	0271	34085	2720				14614								
		STD	0100	0362	3435	2733	0007625	0115		14660								
064		OBS	0105	0379	34405	2736				14669								
		STD	0125	0431	3456	2743	0006763	0133		14696								
		STD	0150	0475	3471	2750	0006141	0149		14721								
064		OBS	T0155	0481	34732	2751				14724								
		STD	0200	0488	3483	2758	0005444	0178		14736								
064		OBS	0208	0489	34845	2759				14738								
		STD	0250	0462	3486	2763	0004986	0205		14734								
		STD	0300	0436	3487	2767	0004676	0229		14731								
064		OBS	T0312	0431	34872	2767				14731								
064		OBS	0384	0410	34884	2770				14735								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

MESSAGE TIME HR 1/10		CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO ₂ -N $\mu g - \text{at/l}$	NO ₃ -N $\mu g - \text{at/l}$	SIO ₄ -Si $\mu g - \text{at/l}$	pH	S C
084			STD	0000	0457	3347	2653	0015081	0000	14672								
			OBS	0000	0457	33472	2653			14672								
			STD	0010	0463	3349	2654	0015033	0015	14676								
			STD	0020	0469	3350	2655	0014986	0030	14681								
084			OBS	0026	03710	33514	26660											
			STD	0030	0475	3363	2664	0014112	0045	14687								
			STD	0050	0487	3404	2695	0011187	0070	14700								
084			OBS	0051	0488	34053	2696			14701								
			STD	0075	0419	3421	2716	0009218	0095	14678								
084			OBS	0076	0418	34214	2716			14678								
			STD	0100	0461	3446	2731	0007806	0117	14703								
084			OBS	0102	0464	34478	2732			14705								
			STD	0125	0470	3458	2740	0007031	0135	14713								
			STD	0150	0476	3466	2745	0006530	0152	14721								
			OBS	T0156	0478	34670	2746			14722								
084			STD	0200	0441	3470	2753	0005898	0183	14715								
			OBS	0206	0437	34710	2754			14714								
084			STD	0250	0431	3476	2758	0005390	0211	14719								
			OBS	T0291	0425	34827	2764			14725								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE					YEAR	ORIGINATOR'S		DEPTH 10 BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR,1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		4709 N	04602 W		149	76	06	05	104	1967		10004	0320	03	25	2	2		X0		0	0088
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								00	S00	261	072	061	6	09									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	S Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	Si O ₄ -Si μg - ol/l	pH	Si CC
		STD	0000	0384	3324	2643	0016090	0000	14638								
104		OBS	0000	0384	33243	2643			14638								
		STD	0010	0445	3339	2648	0015585	0016	14667								
		STD	0020	0477	3353	2656	0014872	0031	14684								
104		OBS	0025	0482	33592	2660			14688								
		STD	0030	0460	3364	2666	0013878	0045	14680								
		STD	0050	0396	3385	2690	0011696	0071	14660								
104		OBS	0050	0396	33847	2690			14660								
		STD	0075	0370	3413	2715	0009321	0097	14657								
		OBS	0075	0370	34132	2715			14657								
		STD	0100	0463	3449	2733	0007640	0118	14704								
104		OBS	0100	0463	34485	2733			14704								
		STD	0125	0455	3455	2739	0007096	0137	14706								
		STD	0150	0448	3462	2745	0006516	0154	14708								
104		OBS	T0152	0447	34630	2746			14708								
		STD	0200	0478	3480	2756	0005561	0184	14731								
104		OBS	0201	0479	34806	2757			14732								
		STD	0250	0476	3484	2760	0005293	0211	14739								
		STD	0300	0437	3485	2765	0004837	0237	14731								
104		OBS	0301		34851												
104		OBS	0311	0424	34849	2766			14728								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH 10 BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR,1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318016	EV		4730 N	04602 W		149	76	06	05	128	1967		10005	0375	04	24	2	4		X0		0	0089
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								22	S07	254	061	050	7	09									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-X10 ³	S Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ol/l	TOTAL-P μg - ol/l	NO ₂ -N μg - ol/l	NO ₃ -N μg - ol/l	Si O ₄ -Si μg - ol/l	pH	Si CC
		STD	0000	0406	3335	2649	0015485	0000	14649								
128		OBS	0000	0406	33351	2649			14649								
		STD	0010	0390	3344	2658	0014670	0015	14645								
		STD	0020	0371	3358	2671	0013444	0029	14640								
128		OBS	0025	0360	33667	2679			14638								
		STD	0030	0338	3382	2693	0011340	0042	14631								
		STD	0050	0294	3429	2735	0007420	0060	14622								
128		OBS	0051	0293	34306	2736			14622								
		STD	0075	0333	3450	2748	0006204	0077	14646								
128		OBS	0076	0334	34507	2748			14646								
		STD	0100	0354	3461	2754	0005593	0092	14660								
128		OBS	0102	0356	34616	2755			14662								
		STD	0125	0376	3468	2758	0005303	0106	14675								
		STD	0150	0394	3474	2761	0005056	0119	14687								
128		OBS	0152		34746												
		STD	0200	0419	3481	2764	0004839	0143	14707								
128		OBS	0204	0420	34817	2764			14708								
		STD	0250	0421	3486	2767	0004541	0167	14717								
		STD	0300	0423	3488	2769	0004457	0189	14726								
128		OBS	T0306	0423	34884	2769			14727								
128		OBS	0356	0412	34881	2770			14731								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318016	EV		4749 N	04602 W	149	76	06	05	149	1967		10006	0732	07	24	2	2		X0	0		0090
						WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB		WET BULB														
						23	S10	251	067	056	8	11										
MESSAGE HR 1/10	TIME OF	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C			
			STD	0000	0445	3357	2662		0014230	0000	14668											
149			OBS	0000	0445	33569	2662				14668											
			STD	0010	0379	3368	2678		0012758	0013	14644											
			STD	0020	0321	3379	2692		0011408	0026	14622											
149			OBS	0025	0294	33837	2699				14612											
			STD	0030	0256	3389	2706		0010112	0036	14597											
149			OBS	0049	0191	34070	2726				14574											
			STD	0050	0195	3408	2726		0008213	0055	14576											
149			OBS	0074	0296	34307	2736				14627											
			STD	0075	0303	3432	2736		0007289	0074	14630											
149			OBS	0098	0428	34599	2746				14691											
			STD	0100	0428	3460	2746		0006407	0091	14691											
			STD	0125	0429	3467	2752		0005912	0107	14697											
149			OBS	0149		34730																
			STD	0150	0429	3473	2756		0005478	0121	14702											
149			OBS	0198	0430	34814	2763				14711											
			STD	0200	0430	3482	2763		0004883	0147	14712											
			STD	0250	0436	3487	2767		0004622	0170	14723											
149			OBS	T0297	0441	34901	2769				14733											
			STD	0300	0440	3490	2769		0004496	0193	14733											
149			OBS	0397	0405	34872	2770				14734											
			STD	0400	0405	3487	2770		0004415	0238	14735											
			STD	0500	0404	3489	2772		0004374	0282	14751											
149			OBS	T0596	0401	34906	2773				14766											
			STD	0600	0401	3491	2773		0004317	0325	14767											
			STD	0700	0397	3491	2774		0004374	0369	14782											
149			OBS	0712	0396	34905	2774				14783											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318016	EV		4810 N	04602 W	149	86	06	05	174	1967		10007	0967	09	22	2	2		X1	3	2	0091
		WATER		WIND		BARO-METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																	
				24	S10		244	072	067	7	12											
MESSNGR TIME OF HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	NODC					
		STD	0000	0485	3381	2677	0012842	0000	14688													
174		OBS	0000	0485	33809	2677			14688													
		STD	0010	0474	3410	2701	0010551	0012	14689													
		STD	0020	0458	3427	2717	0009116	0022	14686													
174		OBS	0021	0456	34287	2718			14686													
		STD	0030	0430	3428	2720	0008761	0030	14676													
174		OBS	0044	0401	34268	2723			14666													
		STD	0050	0395	3435	2730	0007903	0047	14666													
174		OBS	0065	0387	34506	2743			14667													
		STD	0075	0388	3453	2745	0006506	0065	14670													
174		OBS	0088	0390	34566	2747			14673													
		STD	0100	0374	3459	2751	0005937	0081	14669													
		STD	0125	0355	3465	2758	0005323	0095	14665													
174		OBS	T0132	0353	34660	2759			14666													
		STD	0150	0362	3470	2761	0005037	0108	14673													
174		OBS	0178	0373	34744	2763			14683													
		STD	0200	0378	3477	2765	0004715	0132	14689													
		STD	0250	0386	3480	2766	0004617	0155	14701													
174		OBS	T0266	0387	34811	2767			14704													
		STD	0300	0387	3482	2768	0004521	0178	14710													
174		OBS	0361	0386	34830	2769			14720													
		STD	0400	0396	3485	2769	0004490	0223	14731													
		STD	0500	0410	3488	2770	0004516	0268	14754													
174		OBS	T0548	0412	34894	2771			14763													
		STD	0600	0405	3489	2772	0004452	0313	14768													
		STD	0700	0393	3489	2773	0004410	0358	14780													
174		OBS	0732	0389	34894	2773			14784													
		STD	0800	0382	3490	2774	0004360	0401	14792													
174		OBS	0863	0376	34898	2775			14800													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318016	EV		48185N	04602 W		149	86	06	05	190	1967		10008		1189	11	21	2	2		X1	3	7	0092
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
									24	S12	237	072	067	7	12									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	SCC
		STD	0000	0479	3374	2672	0013327	0000	14685								
	190	OBS	0000	0479	33736	2672			14685								
		STD	0010	0424	3399	2698	0010862	0012	14667								
		STD	0020	0382	3417	2717	0009105	0022	14653								
	190	OBS	0026	0363	34249	2725			14647								
		STD	0030	0361	3426	2726	0008236	0031	14647								
		STD	0050	0339	3430	2731	0007746	0047	14642								
	190	OBS	0052	0336	34305	2732			14641								
		STD	0075	0282	3438	2743	0006654	0065	14622								
	190	OBS	0077	0280	34392	2744			14622								
		STD	0100	0293	3449	2751	0005936	0080	14633								
	190	OBS	0104	0296	34509	2752			14635								
		STD	0125	0320	3458	2755	0005520	0095	14650								
		STD	0150	0345	3466	2759	0005172	0108	14665								
	190	OBS	T0156	0351	34676	2760			14669								
		STD	0200	0389	3477	2764	0004627	0133	14694								
	190	OBS	0206	0392	34778	2764			14696								
		STD	0250	0380	3479	2766	0004631	0157	14699								
		STD	0300	0372	3480	2768	0004519	0180	14704								
	190	OBS	T0308	0371	34803	2768			14704								
		STD	0400	0374	3482	2769	0004479	0225	14721								
	190	OBS	0409	0375	34826	2770			14723								
		STD	0500	0384	3486	2771	0004414	0269	14742								
		STD	0600	0394	3489	2772	0004384	0313	14763								
	190	OBS	T0613	0395	34890	2773			14766								
		STD	0700	0390	3490	2774	0004353	0357	14779								
		STD	0800	0384	3491	2775	0004316	0400	14793								
	190	OBS	T0820	0383	34907	2775			14796								
		STD	0900	0377	3491	2776	0004294	0443	14807								
		STD	1000	0369	3491	2777	0004265	0486	14820								
		STD	1100	0360	3492	2778	0004221	0528	14833								
	190	OBS	1124	0358	34916	2778			14836								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318016	EV		44385N	049110W		149	49	06	06	174	1967		10009		0058	00	27	2	2		X2	7	8	0093
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
									22	S14	247	094	089	6	03									

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₂ -Si μg - dl/l	pH	SCC
		STD	0000	0645	3265	2567	0023321	0000	14738								
	174	OBS	0000	0645	32654	2567			14738								
		STD	0010	0509	3266	2584	0021735	0023	14684								
		STD	0020	0379	3270	2600	0020151	0043	14632								
	174	OBS	0025	0316	32729	2608			14606								
		STD	0030	0255	3276	2616	0018652	0063	14581								
		STD	0050	0024	3297	2648	0015571	0097	14484								
	174	OBS	0050	0024	32973	2648			14484								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8016	EV	4436 N	04901 W	149	49	06	06 185	1967	10010	0549	05	24	2	2		X2	7	8	0094
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	(mb)	DRY BULB	WET BULB											
						20	510	247	111	100	6	10								

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
		STD	0000	0406	3278	2604	0019779	0000	14641								
185		OBS	0000	0406	32781	2604			14641								
		STD	0010	0290	3280	2616	0018657	0019	14593								
		STD	0020	0183	3281	2625	0017761	0037	14548								
185		OBS	0025	0133	32815	2629			14527								
		STD	0030	0073	3286	2636	0016690	0055	14501								
		STD	0050	-0087	3301	2656	0014857	0086	14433								
185		OBS	0050	-0087	33006	2656			14433								
185		OBS	0074	-0107	33084	2663			14429								
		STD	0075	-0108	3309	2663	0014169	0122	14429								
185		OBS	0099	-0109	33105	2664			14432								
		STD	0100	-0107	3311	2665	0013966	0158	14434								
		STD	0125	-0047	3333	2680	0012499	0191	14469								
185		OBS	0149	0006	33510	2692			14500								
		STD	0150	0008	3352	2693	0011301	0220	14501								
185		OBS	0199	0102	33815	2711			14556								
		STD	0200	0106	3383	2712	0009519	0273	14558								
		STD	0250	0274	3435	2741	0006917	0314	14647								
185		OBS	0297	0376	34680	2758			14703								
		STD	0300	0378	3469	2758	0005404	0344	14705								
185		OBS	T0395	0416	34836	2766			14738								
		STD	0400	0416	3484	2766	0004781	0395	14739								
185		OBS	0495	0414	34885	2770			14755								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8016	EV	4435 N	04856 W	149	48	06	06 195	1967	10011	0805	08	24	2	2		X2	7	8	0095
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)	(mb)	DRY BULB	WET BULB											
						19	512	247	100	089	6	11								

MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C
		STD	0000	0402	3275	2602	0019960	0000	14639								
195		OBS	0000	0402	32752	2602			14639								
		STD	0010	0302	3276	2612	0019028	0019	14598								
		STD	0020	0199	3277	2621	0018191	0038	14555								
195		OBS	0025	0146	32770	2625			14532								
		STD	0030	0068	3283	2634	0016891	0056	14499								
195		OBS	0049	-0122	33020	2658			14417								
		STD	0050	-0122	3303	2659	0014563	0087	14417								
195		OBS	0074	-0120	33157	2669			14424								
		STD	0075	-0119	3316	2669	0013559	0122	14424								
195		OBS	0098	-0092	33260	2676			14442								
		STD	0100	-0088	3327	2677	0012807	0155	14445								
		STD	0125	-0024	3343	2687	0011838	0186	14481								
195		OBS	0149	0050	33645	2701			14522								
		STD	0150	0055	3366	2702	0010492	0214	14524								
195		OBS	0199	0249	34257	2736			14627								
		STD	0200	0251	3426	2736	0007366	0259	14628								
		STD	0250	0340	3456	2752	0005955	0292	14678								
195		OBS	0297	0395	34743	2761			14712								
		STD	0300	0396	3475	2761	0005143	0320	14713								
195		OBS	T0398	0421	34838	2766			14741								
		STD	0400	0421	3484	2766	0004837	0370	14741								
		STD	0500	0416	3487	2769	0004657	0417	14756								
195		OBS	T0595	0411	34892	2771			14770								
		STD	0600	0411	3489	2771	0004535	0463	14771								
		STD	0700	0405	3490	2772	0004540	0508	14785								
195		OBS	T0799	0399	34898	2773			14799								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS INCH	MARS DEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8016	EV	44335N	04842 W		149	48	06	06	210	1967	10012	2103	11	26	2	3		X4	7	8	0096	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
									20	510	247	078	072	6	12								
MESSAGE TIME OF HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₄ -Si $\mu g - \mu l/l$	pH	S C						
		STD	0000	0384	3295	2620	0018269	0000	14634														
		OBS	0000	0384	32954	2620			14634														
		STD	0010	0382	3307	2629	0017380	0018	14637														
		STD	0020	0379	3320	2640	0016386	0035	14639														
		OBS	0026	0378	33273	2646			14640														
		STD	0030	0362	3333	2652	0015252	0051	14635														
		STD	0050	0284	3361	2681	0012468	0078	14609														
		OBS	0052	0276	33633	2684			14606														
		STD	0075	0183	3387	2710	0009723	0106	14572														
		OBS	0077	0181	33888	2712			14572														
		STD	0100	0229	3410	2725	0008343	0129	14599														
		OBS	0102	0235	34123	2726			14603														
		STD	0125	0364	3442	2738	0007139	0148	14666														
		STD	0150	0453	3464	2746	0006424	0165	14711														
		OBS	T0153	0460	34664	2748			14714														
		STD	0200	0461	3475	2754	0005741	0195	14724														
		OBS	0205	0461	34757	2755			14725														
		STD	0250	0489	3485	2759	0005366	0223	14745														
		STD	0300	0504	3492	2763	0005077	0249	14760														
		OBS	T0306	0505	34930	2764			14762														
		STD	0400	0486	3495	2767	0004760	0498	14770														
		OBS	0408	0484	34954	2768			14770														
		STD	0500	0454	3495	2771	0004512	0345	14773														
		STD	0600	0427	3494	2773	0004355	0389	14778														
		OBS	T0608	0425	34940	2773			14779														
		STD	0700	0404	3492	2774	0004343	0433	14785														
		STD	0800	0387	3491	2775	0004314	0476	14794														
		OBS	T0805	0386	34909	2775			14795														
		STD	0900	0382	3491	2775	0004348	0519	14808														
		STD	1000	0377	3491	2776	0004375	0563	14823														
		STD	1100	0372	3491	2776	0004406	0607	14838														
		OBS	1109	0372	34910	2777			14839														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS INCH	MARS DEN SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	8016	EV	44305N	04829 W		149	48	06	06	225	1967	10013	2834	11	26	2	2		X4	7	8	0097
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB									
									20	512	247	072	072	6	12							
MESSAGE TIME OF HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO ₂ -N $\mu g - \mu l/l$	NO ₃ -N $\mu g - \mu l/l$	SiO ₄ -Si $\mu g - \mu l/l$	pH	S C					
		STD	0000	0329	3289	2620	0018261	0000	14610													
	225	OBS	0000	0329	32890	2620			14610													
		STD	0010	0456	3291	2608	0019364	0019	14666													
		STD	0020	0518	3292	2603	0019682	0038	14693													
	225	OBS	0024	0523	32927	2603			14696													
		STD	0030	0464	3324	2634	0016924	0057	14677													
	225	OBS	0047	0338	34003	2708			14637													
		STD	0050	0324	3402	2710	0009720	0083	14631													
	225	OBS	0071	0261	3457P	2760P																
		STD	0075	0261	3416	2727	0008138	0106	14610													
	227	OBS	0095	0262	3424P	2733P																
		STD	0100	0275	3430	2737	0007212	0125	14622													
		STD	0125	0339	3443	2742	0006825	0143	14656													
	227	OBS	0144	0383	34526	2745			14679													
		STD	0150	0400	3456	2746	0006467	0159	14687													
	227	OBS	0193	0482	34769	2753			14731													
		STD	0200	0472	3477	2755	0005714	0190	14726													
		STD	0250	0423	3477	2760	0005231	0217	14716													
	227	OBS	T0290	0408	34795	2764			14717													
		STD	0300	0416	3481	2764	0004907	0442	14722													
	227	OBS	0388	0467	34930	2768			14760													
		STD	0400	0464	3493	2768	0004645	0290	14760													
		STD	0500	0445	3494	2771	0004489	0336	14769													
	227	OBS	T0584	0431	34943	2773			14777													
		STD	0600	0429	3494	2773	0004363	0380	14779													
		STD	0700	0417	3494	2775	0004316	0423	14791													
	227	OBS	T0785	0408	34945	2776			14801													
		STD	0800	0406	3494	2775	0004314	0467	14803													
		STD	0900	0396	3494	2776	0004289	0510	14815													
		STD	1000	0387	3493	2777	0004347	0553	14828													
	227	OBS	1086	0379	34926	2777			14839													

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REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DATE MO DAY	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER	
CRUISE CODE	IO. NO.						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				SEA
318016	EV		4428 N	04815 W	149 48 06 07	1967	10014		3237	08	26	3	2		X1	4 5	0098
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
				19 512		251	067		056	6	12						
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SIO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CODE
		STD	0000	0452	3295	2612	0018986	0000	14663								
	006	OBS	0000	0452	32946	2612			14663								
		STD	0010	0226	3295	2634	0016980	0018	14568								
	006	OBS	0017	0137	32955	2640			14529								
		STD	0020	0153	3302	2644	0015952	0034	14538								
		STD	0030	0190	3320	2656	0014838	0050	14559								
	006	OBS	0037	0201	33298	2663			14566								
		STD	0050	0174	3341	2674	0013138	0078	14558								
	006	OBS	0056	0173	33448	2677			14559								
		STD	0075	0223	3355	2682	0012444	0110	14585								
	006	OBS	0076	0225	33555	2682			14586								
		STD	0100	0230	3380	2701	0010618	0139	14596								
	006	OBS	T0118	0234	33966	2714			14603								
		STD	0125	0245	3404	2719	0008937	0163	14610								
		STD	0150	0283	3425	2732	0007689	0184	14633								
	006	OBS	0151	0284	34255	2733			14634								
		STD	0200	0320	3440	2741	0006928	0220	14659								
	006	OBS	0228		34489												
		STD	0250	0351	3458	2752	0005913	0252	14683								
		STD	0300	0377	3474	2762	0005019	0280	14705								
	006	OBS	0304	0379	34746	2763			14706								
		STD	0400	0414	3486	2768	0004611	0328	14738								
	006	OBS	T0451	0426	34906	2771			14753								
		STD	0500	0430	3492	2771	0004426	0373	14762								
		STD	0600	0438	3496	2773	0004373	0417	14783								
	006	OBS	T0607	0438	34957	2773			14784								
		STD	0700	0432	3495	2773	0004441	0461	14797								
		STD	0800	0414	3494	2775	0004379	0505	14806								
	006	OBS	0838	0404	34941	2775			14808								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CRUISE CODE	IO. NO.						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318016	EV		4426 N	04802 W	149 48 06 07	021	1967	10015	3548	10	26	3	3		X1	4 8	0099
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
				21	512	247	072	067	6	12							
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CODE
		STD	0000	0388	3279	2606	0019580	0000	14634								
021		OBS	0000	0388	32785	2606			14634								
		STD	0010	0242	3280	2620	0018243	0019	14573								
		STD	0020	0135	3285	2632	0017129	0037	14528								
021		OBS	0025	0096	32891	2638			14511								
		STD	0030	0086	3296	2644	0016022	0053	14509								
		STD	0050	0045	3322	2667	0013795	0083	14497								
021		OBS	0050	0045	33220	2667			14497								
021		OBS	0074	0654	34307	2696			14775								
		STD	0075	0662	3432	2696	0011194	0114	14779								
021		OBS	0098	0781	34567	2698			14832								
		STD	0100	0763	3454	2699	0010954	0142	14825								
		STD	0125	0597	3427	2700	0010821	0169	14760								
021		OBS	0148	0538	34220	2703			14740								
		STD	0150	0549	3425	2705	0010425	0196	14745								
021		OBS	0197	0716	34773	2724			14826								
		STD	0200	0709	3477	2725	0008641	0243	14824								
		STD	0250	0606	3477	2739	0007356	0283	14791								
021		OBS	T0294	0550	34772	2746			14776								
		STD	0300	0550	3478	2746	0006672	0318	14777								
021		OBS	0390	0539	34922	2759			14789								
		STD	0400	0536	3493	2760	0005511	0379	14790								
		STD	0500	0503	3497	2767	0004932	0432	14793								
021		OBS	T0580	0479	34981	2771			14797								
		STD	0600	0473	3498	2771	0004609	0479	14798								
		STD	0700	0444	3496	2773	0004517	0525	14802								
021		OBS	T0763	0429	34956	2774			14806								
		STD	0800	0421	3495	2775	0004418	0570	14809								
		STD	0900	0405	3494	2775	0004397	0614	14819								
		STD	1000	0395	3494	2777	0004369	0657	14831								
021		OBS	1046	0393	34935	2776			14838								

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REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	INDICATOR	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.						10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT			
31	8016	EV	4302 N	05007 W		150	30	06	07	185	1967		10018	0075	01	28	2	2		X4	7 8		01021		
							WATER		WIND		BARO- METER	AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
							COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB		°C	°C									
										20	510	244	089	0d3	3	04									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ ρ DYN. M. X 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₃ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	NODC								
		STD	0000	0854	3315	2576	0022445	0000	14826																
185		OBS	0000	0854	33145	2576			14826																
		STD	0010	0724	3320	2599	0020256	0021	14778																
		STD	0020	0590	3324	2620	0018304	0041	14727																
185		OBS	0025	0522	33244	2628			14700																
		STD	0030	0422	3321	2636	0016726	0058	14659																
		STD	0050	0167	3318	2656	0014812	0090	14551																
185		OBS	0050	0167	33183	2656			14551																
185		OBS	0065	0131	33252	2664			14539																

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	INDICATOR	MAPS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	8016	EV	4252 N	05007 W		150	20	06	07 200	1967		10019	0348	03	27	2	2		X4	7 8		0103
						WATER		WIND		BARO- METER		AIR TEMP °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	°C	°C									
									29	504	240	106	094	1	08							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ ρ DYN. M. X 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg-at/l	TOTAL-P μg-at/l	NO ₃ -N μg-at/l	NO ₃ -N μg-at/l	SiO ₄ -Si μg-at/l	pH	NODC				
		STD	0000	0974	3362	2594	0020765		0000	14877												
	200	OBS	0000	0974	33616	2594				14877												
		STD	0010	0976	3388	2614	0018854		0020	14882												
		STD	0020	0977	3408	2629	0017420		0038	14887												
	200	OBS	0026	0978	34179	2637				14890												
		STD	0030	0946	3420	2644	0016061		0055	14879												
		STD	0050	0834	3434	2673	0013367		0084	14842												
	200	OBS	0052	0827	34359	2675				14840												
		STD	0075	0819	3454	2691	0011702		0115	14843												
	200	OBS	0079	0817	34574	2693				14843												
		STD	0100	0913	3480	2696	0011246		0144	14886												
	200	OBS	0105	0926	34843	2697				14892												
		STD	0125	0897	3486	2703	0010641		0171	14885												
		STD	0150	0848	3487	2712	0009824		0197	14870												
	200	OBS	0157	0832	34875	2715				14866												
		STD	0200	0701	3481	2729	0008257		0242	14821												
	200	OBS	0208	0683	34800	2731				14815												
		STD	0250	0626	3481	2739	0007352		0281	14800												
	200	OBS	0269	0620	34811	2740				14801												

REFERENCE		SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	ORBIT NO.	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
31	8016	EV	42485N	05007 W		150	20	06	07	209	1967	10020	0805	08	27	1	2		X4	7	8	0104
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS mm	DIR	SPEED OR FORCE			DRY BULB	WET BULB													
								29		504	240	100	094	3	12							
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S.D. DYN. AL. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P ug - at	TOTAL-P ug - at/l	NO ₂ -N ug - at/l	NO ₃ -N ug - at/l	SiO ₄ -Si ug - at/l	pH	CO ₂					
		STD	0000	0931	3336	2581	0022009	0000	14857													
	209	OBS	0000	0931	33358	2581			14857													
		STD	0010	0895	3338	2588	0021335	0022	14846													
		STD	0020	0841	3340	2598	0020418	0043	14827													
	209	OBS	0023	0821	33403	2601			14821													
		STD	0030	0742	3364	2631	0017246	0061	14794													
	209	OBS	0047	0614	34036	2680			14751													
		STD	0050	0605	3406	2683	0014388	0091	14749													
	209	OBS	0071	0584	34188	2695			14745													
		STD	0075	0587	3421	2697	0011082	0120	14747													
	209	OBS	0095	0610	34329	2732			14764													
		STD	0100	0649	3444	2705	0010319	0147	14779													
		STD	0125	0765	3475	2715	0009465	0172	14833													
	209	OBS	T0143	0795	34890	2722			14849													
		STD	0150	0769	3467	2724	0008675	0195	14840													
	209	OBS	0193	0641	34796	2736			14797													
		STD	0200	0637	3450	2737	0007461	0235	14796													
		STD	0250	0595	3464	2744	0006867	0271	14787													
	209	OBS	T0292	0560	34830	2749			14780													
		STD	0300	0552	3483	2750	0006317	0304	14776													
	209	OBS	0391	0461	34842	2754			14765													
		STD	0400	0476	3485	2760	0005411	0362	14765													
		STD	0500	0448	3465	2766	0004948	0414	14769													
	209	OBS	T0590	0428	34899	2770			14776													
		STD	0600	0427	3490	2771	0004662	0462	14778													
		STD	0700	0419	3491	2771	0004625	0509	14791													
	209	OBS	0790	0411	34904	2772			14802													
		STD	0800	0412	3491	2772	0004614	0555	14805													
	209	OBS	0810	0413	34908	2772			14807													

REFERENCE		SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	ORBIT NO.	MARS SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
31	8016	EV	4239 N	05007 W		150	20	06	07	220	1967	10021	1554	11	27	1	2		X4	7	8	0105
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS mm	DIR	SPEED OR FORCE	DIR	DRY BULB		WET BULB															
						27	505	240	069	069	3	12										
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S °C	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	S.D. DYN. AL. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P ug - at	TOTAL-P ug - at	NO ₂ -N ug - at/l	NO ₃ -N ug - at/l	SiO ₄ -Si ug - at/l	pH	CO ₂					
		STD	0000	0996	3340	2573	0024713	0000	14884													
		OBS	0000	0997	33400	2573			14882													
		STD	0010	0931	3338	2582	0021910	0022	14860													
		STD	0020	0864	3336	2591	0021050	0044	14836													
		OBS	0025	0827	33346	2596			14822													
		STD	0030	0786	3340	2606	0019608	0064	14808													
		STD	0050	0621	3363	2647	0015764	0099	14749													
		OBS	0051	0614	33644	2649			14746													
		STD	0075	0807	3400	2702	0010645	0133	14840													
		OBS	0076	0803	34076	2703			14841													
		STD	0100	0662	3448	2708	0010039	0156	14785													
		OBS	0102	0653	34474	2709			14762													
		STD	0125	0643	3451	2714	0009484	0183	14776													
		STD	0150	0611	3455	2720	0008956	0206	14774													
		OBS	T0154	0607	34553	2721			14773													
		STD	0200	0744	3449	2736	0007588	0247	14842													
		OBS	0204	0755	35014	2738			14846													
		STD	0250	0626	3493	2748	0006445	0282	14801													
		STD	0300	0533	3489	2757	0005646	0312	14772													
		OBS	T0308	0523	34885	2758			14769													
		STD	0400	0501	3444	2765	0005012	0366	14776													
		OBS	0404	0495	34944	2766			14776													
		STD	0500	0443	3497	2768	0004833	0415	14789													
		STD	0600	0475	3494	2772	0004582	0462	14799													
		OBS	T0611	0471	34989	2772			14799													
		STD	0700	0431	3445	2773	0004436	0507	14796													
		STD	0800	0396	3442	2775	0004368	0551	14799													
		OBS	T0817	0394	34913	2774			14800													
		STD	0900	0392	3492	2775	0004424	0595	14813													
		STD	1000	0390	3492	2775	0004462	0640	14829													
		STD	1100	0389	3492	2776	0004506	0684	14845													
		OBS	1124	0388	34924	2776			14849													

REFERENCE		SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318016	EV		4229 N	05007 W	150	20	06	08 001	1967		10022	2195	11	27	2	2		X4	7	8	0106
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	CODE	CODE										
					28	S06	237	094	089	1	12										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		S.S.D. DYN. M $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₂ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SIO ₄ -Si µg - at/l	pH				
		STD	0000	1021	3333	2563	0023647		0000	14890											
	001	OBS	0000	1021	33328	2563				14890											
		STD	0010	0890	3334	2586	0021535		0023	14844											
		STD	0020	0788	3335	2602	0019989		0043	14806											
	001	OBS	0026	0740	33362	2610				14789											
		STD	0030	0728	3344	2617	0018549		0063	14786											
		STD	0050	0661	3378	2653	0015173		0096	14767											
	001	OBS	0052	0654	33812	2657				14765											
		STD	0075	0563	3410	2691	0011619		0130	14736											
	001	OBS	0078	0556	34140	2695				14734											
		STD	0100	0541	3434	2717	0009224		0156	14735											
	001	OBS	0105	0539	34433	2720				14736											
		STD	0125	0545	3451	2726	0008402		0178	14742											
		STD	0150	0552	3460	2732	0007843		0198	14751											
	001	OBS	T0158	0554	34626	2734				14753											
		STD	0200	0542	3473	2743	0006821		0235	14757											
	001	OBS	0209	0540	34744	2745				14757											
		STD	0250	0529	3479	2750	0006281		0268	14760											
		STD	0300	0516	3483	2754	0005890		0298	14764											
	001	OBS	T0314	0513	34843	2756				14765											
		STD	0400	0494	3487	2762	0005301		0354	14772											
	001	OBS	0418	0489	34892	2762				14773											
		STD	0500	0456	3490	2767	0004892		0405	14773											
		STD	0600	0425	3490	2770	0004636		0453	14777											
	001	OBS	T0625	0418	34903	2771				14776											
		STD	0700	0404	3490	2773	0004469		0498	14785											
		STD	0800	0385	3490	2774	0004381		0542	14795											
	001	OBS	T0836	0385	34904	2775				14799											
		STD	0900	0379	3491	2776	0004310		0586	14807											
		STD	1000	0372	3491	2777	0004315		0629	14821											
		STD	1100	0370	3492	2778	0004304		0672	14837											
	001	OBS	1149	0370	34925	2778				14845											

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318016	EV		4209 N	05007 W	150	20	06	08 027	1967		10023	3109	11	29	2	2		X4	7 8	0107
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
		COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
							29	504	244	094	094	1	12							
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl^{-1}$	TOTAL-P $\mu g \cdot dl^{-1}$	NO ₃ -N $\mu g \cdot dl^{-1}$	NO ₃ -N $\mu g \cdot dl^{-1}$	SiO ₄ -Si $\mu g \cdot dl^{-1}$	pH			
		STD	0000	1112	3348	2559	0024038		0000	14925										
027		OBS	0000	1112	33480	2559				14925										
		STD	0010	1005	3358	2586	0021545		0023	14889										
		STD	0020	0899	3366	2609	0019321		0043	14853										
027		OBS	0026	0836	33714	2623				14831										
		STD	0030	0780	3373	2633	0017096		0061	14810										
		STD	0050	0583	3388	2671	0013469		0092	14737										
027		OBS	0052	0571	33897	2674				14733										
		STD	0075	0536	3426	2707	0010109		0121	14727										
027		OBS	0078	0535	34297	2710				14728										
		STD	0100	0566	3447	2720	0008921		0145	14746										
027		OBS	0104	0569	34498	2722				14749										
		STD	0125	0555	3454	2727	0008299		0167	14747										
		STD	0150	0543	3460	2733	0007740		0187	14747										
027		OBS	T0154	0542	34608	2734				14747										
		STD	0200	0542	3474	2744	0006746		0223	14757										
027		OBS	0207	0541	34750	2745				14758										
		STD	0250	0500	3476	2751	0006165		0255	14748										
		STD	0300	0474	3479	2756	0005699		0285	14746										
027		OBS	T0313	0471	34798	2757				14747										
		STD	0400	0496	3493	2765	0005027		0339	14773										
027		OBS	0414	0498	34949	2766				14777										
		STD	0500	0480	3496	2769	0004751		0388	14784										
		STD	0600	0458	3497	2772	0004541		0434	14791										
027		OBS	T0620	0453	34967	2772				14793										
		STD	0700	0427	3494	2773	0004463		0479	14795										
		STD	0800	0403	3493	2775	0004352		0523	14801										
027		OBS	T0827	0398	34922	2775				14803										
		STD	0900	0397	3493	2775	0004395		0567	14815										
		STD	1000	0395	3494	2776	0004409		0611	14831										
		STD	1100	0394	3494	2777	0004429		0655	14847										
027		OBS	1138	0393	34945	2777				14853										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR. 1/10	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAT. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8017	EV	3727 N	05024 W	114 70 07 25 120	1967		11P	10024		5286	15	21	0	2			X1	0	3		0001

WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			
DT	SD	21	508	329	278	244	8	30	

MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY=σ _t ?	Σ Δ σ OTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C
		STD	0000	2606	3645	2413	0037981	0000	15389								
		OBS	0000	2606	36448	2413			15389								
		OBS	0005	2517	36451	2441			15369								
		STD	0010	2508	3641	2440	0035401	0037	15368								
		OBS	0010	2508	36410	2440			15368								
		STD	0020	2371	3646	2485	0031171	0070	15337								
		OBS	0020	2371	36458	2485			15337								
		STD	0030	2260	3652	2522	0027673	0099	15312								
		OBS	0030	2260	36522	2522			15312								
		STD	0050	2115	3646	2558	0024336	0151	15277								
		OBS	0050	2115	36458	2558			15277								
		STD	0075	1973	3657	2605	0019958	0407	15245								
		OBS	0075	1973	36573	2605			15245								
		STD	0100	1917	3658	2620	0018590	0255	15233								
		OBS	0100	1917	36582	2620			15233								
		STD	0125	1858	3656	2633	0017433	0300	15221								
		OBS	0125	1858	36555	2633			15221								
		STD	0150	1838	3654	2637	0017132	0343	15219								
		OBS	0150	1838	36542	2637			15219								
		STD	0200	1797	3650	2644	0016643	0428	15215								
		OBS	0200	1797	36498	2644			15215								
		STD	0250	1778	3652	2651	0016219	0510	15218								
		OBS	0250	1778	36518	2651			15218								
		STD	0300	1763	3650	2653	0016143	0591	15221								
		OBS	0300	1763	36503	2653			15221								
		STD	0400	1744	3648	2656	0016206	0752	15232								
		OBS	0400	1744	36479	2656			15232								
		OBS	0440	1743	36453	2654			15238								
		STD	0500	1690	3633	2658	0016318	0915	15231								
		OBS	0500	1690	36334	2658			15231								
		STD	0600	1560	3609	2670	0015420	1074	15205								
		OBS	0600	1560	36092	2670			15205								
		STD	0700	1417	3587	2684	0014243	1422	15173								
		OBS	0700	1417	35865	2684			15173								
		OBS	0720	1403	35888	2688			15172								
		OBS	0770	1300	35702	2695			15144								
		STD	0800	1240	3555	2695	0013180	1359	15127								
		OBS	0800	1240	35547	2695			15127								
		STD	0900	0996	3528	2720	0010759	1479	15054								
		OBS	0900	0996	35280	2720			15054								
		OBS	0970	0824	35142	2737			15000								
		OBS	0985	0834	35172	2738			15007								
		STD	1000	0800	3515	2741	0008547	1575	14996								
		OBS	1000	0800	35153	2741			14996								
		STD	1100	0599	3500	2757	0006784	1652	14932								
		OBS	1100	0599	34995	2757			14932								
		STD	1200	0513	3498	2767	0005787	1715	14914								
		OBS	1200	0513	34983	2767			14914								
		STD	1300	0471	3497	2771	0005428	1771	14913								
		OBS	1300	0471	34969	2771			14913								
		STD	1400	0460	3499	2774	0005215	1824	14926								
		OBS	1400	0460	34992	2774			14926								
		STD	1500	0443	3500	2776	0005011	1875	14936								
		OBS	1500	0443	35002	2776			14936								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318017	EV		3727 N	05024 W	114	70	07	25	141	1967	11P	10024	5286	34	21	0	2		X1	8	3		0002	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY BULB	WET BULB															
						21	508	329	278	244	7	07												
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	S.D.D. DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C							
		STD	0000	2610	3649	2414	0037827	0000	15390															
141		OBS	0000	2610	36486	2414			15390															
		STD	0010	2581	3648	2423	0037047	0037	15385															
		STD	0020	2552	3647	2431	0036302	0074	15380															
		STD	0030	2524	3646	2439	0035592	0110	15375															
		STD	0050	2467	3643	2454	0034231	0180	15365															
		STD	0075	2398	3641	2473	0032501	0263	15352															
		STD	0100	2329	3638	2491	0030876	0343	15339															
		STD	0125	2262	3635	2509	0029340	0418	15326															
		STD	0150	2196	3633	2526	0027790	0489	15313															
		STD	0200	2068	3627	2557	0025031	0621	15287															
		STD	0250	1944	3622	2586	0022416	0740	15261															
		STD	0300	1825	3616	2612	0020103	0846	15235															
		STD	0400	1602	3604	2656	0016115	1027	15184															
		STD	0500	1399	3592	2692	0012899	1172	15135															
		STD	0600	1214	3579	2719	0010399	1289	15088															
		STD	0700	1049	3566	2740	0008503	1383	15045															
		STD	0800	0904	3553	2755	0007137	1462	15007															
		STD	0900	0777	3539	2763	0006273	1529	14974															
141		OBS	0978		35274																			
		STD	1000	0670	3523	2766	0005962	1590	14947															
		STD	1100	0582	3506	2764	0006064	1650	14926															
		STD	1200	0514	3494	2763	0006116	1711	14914															
141		OBS	T1205	0511	34933	2763			14913															
		STD	1300	0493	3495	2767	0005867	1771	14922															
		STD	1400	0475	3497	2770	0005581	1828	14932															
		STD	1500	0459	3498	2773	0005391	1883	14942															
141		OBS	T1627	0439	34991	2776			14955															
		STD	1750	0421	3498	2777	0005108	2014	14968															
		STD	2000	0390	3497	2779	0004968	2140	14998															
141		OBS	T2053	0385	34964	2779			15004															
		STD	2500	0358	3496	2782	0004949	2388	15069															
141		OBS	T2516	0357	34964	2782			15072															
		STD	3000	0321	3495	2785	0004843	2633	15140															
141		OBS	3434	0284	34939	2787			15199															

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO DAY HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8017	EV	3756 N	05022 W	114	70	07 25 188	1967	11P	10025	5303	15	20	1	2			X1	0 3		0003
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB														
		DT	SD	20	S12	329	27	24	7	27											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO ₂ -N $\mu g \cdot dl/l$	NO ₃ -N $\mu g \cdot dl/l$	SiO ₄ -Si $\mu g \cdot dl/l$	pH	S C				
		STD	0000	2588	3658	2428	0036530	0000	15386												
188		OBS	0000	2588	36575	2428			15386												
		STD	0010	2305	3647	2505	0029241	0033	15319												
		OBS	0010	2305	36465	2505			15319												
		STD	0020	2186	3649	2541	0025867	0060	15291												
002		OBS	0020	2186	36490	2541			15291												
		STD	0030	2067	3647	2572	0022926	0085	15262												
		OBS	0030	2067	36470	2572			15262												
		STD	0050	1905	3651	2618	0018636	0126	15221												
		OBS	0050	1905	36510	2618			15221												
		STD	0075	1823	3650	2638	0016649	0171	15202												
		OBS	0075	1823	36495	2638			15202												
		STD	0100	1798	3650	2644	0016305	0212	15199												
		OBS	0100	1798	36500	2644			15199												
		STD	0125	1790	3652	2647	0016087	0253	15201												
		OBS	0125	1790	36516	2647			15201												
		STD	0150	1780	3651	2649	0015980	0293	15202												
		OBS	0150	1780	36510	2649			15202												
		OBS	0160	1776	36510	2650			15202												
		OBS	0170	1757	36451	2651			15198												
		STD	0200	1752	3646	2653	0015848	0372	15201												
		OBS	0200	1752	36461	2653			15201												
		STD	0250	1746	3646	2654	0015885	0452	15208												
		OBS	0250	1746	36460	2654			15208												
		STD	0300	1743	3645	2654	0016070	0532	15215												
		OBS	0300	1743	36448	2654			15215												
		STD	0400	1695	3637	2659	0015861	0691	15216												
		OBS	0400	1695	36368	2659			15216												
		OBS	0450	1640	36230	2662			15206												
		STD	0500	1555	3607	2669	0015191	0846	15186												
		OBS	0500	1555	36066	2669			15186												
		STD	0600	1405	3582	2683	0014026	0993	15152												
		OBS	0600	1405	35821	2683			15152												
		STD	0700	1264	3564	2697	0012763	1127	15119												
		OBS	0700	1264	35635	2697			15119												
		STD	0800	1047	3536	2717	0010877	1245	15057												
		OBS	0800	1047	35360	2717			15057												
		STD	0900	0805	3504	2732	0009279	1345	14980												
		OBS	0900	0805	35040	2732			14980												
		STD	1000	0653	3508	2756	0006845	1426	14938												
		OBS	1000	0653	35075	2756			14938												
		STD	1100	0560	3503	2765	0005966	1490	14917												
		OBS	1100	0560	35031	2765			14917												
		STD	1200	0492	3503	2773	0005192	1546	14906												
		OBS	1200	0492	35025	2773			14906												
		STD	1300	0461	3501	2775	0005007	1597	14910												
		OBS	1300	0461	35008	2775			14910												
		STD	1400	0443	3501	2777	0004860	1646	14919												
		OBS	1400	0443	35009	2777			14919												
		STD	1500	0424	3500	2778	0004768	1694	14928												
		OBS	1500	0424	35000	2778			14928												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
31	8017	EV	3826 N	05026 W	114	80	07	25	218	1967	11P	10020	5394	15	23	2	2		X1	0	3	0004
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	SD	22	512		312	250				240	7	27				
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		S Δ D DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si D ₄ -Si μg - at/l	pH	S CC		
		STD	0000	2627	3621	2388		0040329		0000		15391										
	218	OBS	0000	2627	36209	2388						15391										
		OBS	0005	2460	36152	2435						15353										
		STD	0010	2456	3634	2451		0034377		0037		15355										
	004	OBS	0010	2456	36343	2451						15355										
		OBS	0012	2463	36463	2458						15358										
		STD	0020	2436	3646	2466		0033030		0071		15353										
		OBS	0020	2436	36456	2466						15353										
		STD	0030	2317	3648	2503		0029530		0102		15326										
		OBS	0030	2317	36482	2503						15326										
		OBS	0032	2244	36499	2525						15308										
		STD	0050	2157	3652	2551		0024973		0157		15289										
		OBS	0050	2157	36523	2551						15289										
		STD	0075	1924	3643	2607		0019787		0213		15229										
		OBS	0075	1924	36428	2607						15229										
		STD	0100	1832	3648	2634		0017239		0259		15208										
		OBS	0100	1832	36483	2634						15208										
		STD	0125	1795	3649	2644		0016379		0301		15202										
		OBS	0125	1795	36492	2644						15202										
		STD	0150	1780	3651	2649		0016002		0342		15202										
		OBS	0150	1780	36507	2649						15202										
		STD	0200	1773	3652	2652		0015937		0421		15208										
		OBS	0200	1773	36517	2652						15208										
		STD	0250	1757	3649	2654		0015897		0501		15211										
		OBS	0250	1757	36494	2654						15211										
		STD	0300	1741	3647	2656		0015871		0580		15215										
		OBS	0300	1741	36469	2656						15215										
		STD	0400	1696	3638	2660		0015834		0739		15216										
		OBS	0400	1696	36375	2660						15216										
		STD	0500	1571	3614	2671		0015025		0893		15192										
		OBS	0500	1571	36138	2671						15192										
		STD	0600	1405	3584	2684		0013895		1038		15152										
		OBS	0600	1405	35839	2684						15152										
		STD	0700	1220	3559	2703		0012223		1168		15104										
		OBS	0700	1220	35590	2703						15104										
		STD	0800	1030	3536	2720		0010606		1483		15051										
		OBS	0800	1030	35355	2720						15051										
		STD	0900	0806	3513	2739		0008637		1579		14981										
		OBS	0900	0806	35130	2739						14981										
		STD	1000	0590	3497	2756		0006714		1456		14911										
		OBS	1000	0590	34969	2756						14911										
		STD	1100	0531	3501	2767		0005689		1518		14905										
		OBS	1100	0531	35014	2767						14905										
		STD	1200	0544	3512	2774		0005221		1572		14928										
		OBS	1200	0544	35119	2774						14928										
		STD	1300	0503	3509	2776		0004987		1623		14928										
		OBS	1300	0503	35089	2776						14928										
		STD	1400	0464	3506	2778		0004808		1672		14928										
		OBS	1400	0464	35055	2778						14928										
		STD	1500	0442	3505	2780		0004647		1719		14936										
		OBS	1500	0442	35050	2780						14936										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	8017	EV	3826 N	05026 W	114	80	07	25	237	1967	111	10026	5394	45	23	2	2		X1	8	6	0005	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
									22	512	312	260	240	7	07								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO ₃ -N $\mu g - dl/l$	NO ₂ -N $\mu g - dl/l$	Si O ₄ -Si $\mu g - dl/l$	pH	COND					
		STD	0000	2620	3617	2387	0040399		0000	15389													
237		OBS	0000	2620	36170	2387				15389													
		STD	0010	2594	3616	2395	0039736		0040	15385													
		STD	0020	2568	3614	2401	0039148		0080	15380													
		STD	0030	2542	3613	2409	0038494		0118	15376													
		STD	0050	2490	3611	2423	0037200		0194	15367													
		STD	0075	2427	3608	2440	0035701		0285	15355													
		STD	0100	2364	3604	2455	0034303		0373	15344													
		STD	0125	2303	3601	2471	0032916		0457	15333													
		STD	0150	2242	3598	2486	0031555		0537	15321													
		STD	0200	2124	3593	2515	0028945		0689	15298													
		STD	0250	2010	3587	2542	0026607		0827	15275													
		STD	0300	1900	3581	2566	0024459		0955	15252													
		STD	0400	1692	3571	2610	0020550		1180	15207													
		STD	0500	1499	3561	2646	0017268		1369	15163													
		STD	0600	1322	3552	2677	0014498		1528	15121													
		STD	0700	1160	3544	2703	0012158		1661	15081													
		STD	0800	1015	3536	2723	0010301		1774	15045													
		STD	0900	0885	3529	2739	0008765		1869	15013													
		STD	1000	0771	3522	2751	0007593		1951	14986													
		STD	1100	0672	3517	2761	0006581		2022	14963													
		STD	1200	0589	3512	2768	0005857		2084	14946													
		STD	1300	0522	3507	2773	0005391		2140	14935													
237		OBS	T1336	0502	35061	2774				14933													
		STD	1400	0480	3504	2775	0005138		2193	14934													
		STD	1500	0450	3501	2776	0005048		2244	14938													
237		OBS	T1659	0411	34978	2778				14949													
		STD	1750	0403	3497	2778	0004932		2368	14961													
		STD	2000	0383	3497	2780	0004869		2491	14995													
237		OBS	T2233	0365	34962	2781				15027													
		STD	2500	0348	3496	2783	0004816		2733	15065													
237		OBS	T2788	0328	34961	2785				15106													
		STD	3000	0309	3495	2786	0004658		2970	15135													
237		OBS	T3384	0280	34924	2786				15189													
		STD	4000	0246	3490	2788	0004553		3430	15282													
237		OBS	4510	0231	34894	2788				15366													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	ORIGIN PROJECT	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE	AMT
318	017	EV	3851 N	05015 W		114	80	07	26	037	1967	TIP	10027	5358	15	20	1	2		X1	0	3	0006
WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																	
OT	SD	20	S12	308	24	23	7	25															
MESSAGE TIME HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C						
		STD	0000	2569	3580	2376	0041528	0000	15373														
	037	OBS	0000	2569	35802	2376			15373														
		OBS	0003	2520	36050	2409			15365														
		STD	0010	2535	3625	2420	0037328	0039	15372														
	002	OBS	0010	2535	36252	2420			15372														
		STD	0020	2443	3632	2453	0034246	0075	15353														
		OBS	0020	2443	36315	2453			15353														
		STD	0030	2263	3662	2529	0027048	0106	15314														
		OBS	0030	2263	36620	2529			15314														
		STD	0050	2200	3673	2555	0024663	0158	15302														
		OBS	0050	2200	36725	2555			15302														
		STD	0075	2080	3663	2581	0022290	0216	15274														
		OBS	0075	2080	36628	2581			15274														
		STD	0100	1956	3655	2608	0019804	0269	15244														
		OBS	0100	1956	36548	2608			15244														
		STD	0125	1926	3662	2621	0018643	0317	15240														
		OBS	0125	1926	36618	2621			15240														
		STD	0150	1879	3656	2629	0017999	0363	15231														
		OBS	0150	1879	36561	2629			15231														
		STD	0200	1835	3657	2640	0017033	0450	15227														
		OBS	0200	1835	36570	2640			15227														
		STD	0250	1794	3654	2648	0016433	0534	15223														
		OBS	0250	1794	36541	2648			15223														
		STD	0300	1774	3652	2651	0016317	0616	15225														
		OBS	0300	1774	36515	2651			15225														
		STD	0400	1755	3652	2656	0016206	0778	15236														
		OBS	0400	1755	36515	2656			15236														
		STD	0500	1726	3645	2658	0016331	0941	15243														
		OBS	0500	1726	36449	2658			15243														
		STD	0600	1517	3603	2674	0014924	1097	15190														
		OBS	0600	1517	36029	2674			15190														
		STD	0700	1274	3564	2696	0012933	1237	15123														
		OBS	0700	1274	35639	2696			15123														
		STD	0800	0990	3527	2720	0010551	1354	15035														
		OBS	0800	0990	35265	2720			15035														
		STD	0900	0763	3509	2742	0008249	1448	14964														
		OBS	0900	0763	35090	2742			14964														
		STD	1000	0655	3509	2757	0006765	1523	14939														
		OBS	1000	0655	35090	2757			14939														
		STD	1100	0580	3513	2770	0005559	1585	14926														
		OBS	1100	0580	35125	2770			14926														
		STD	1200	0494	3504	2773	0005146	1638	14907														
		OBS	1200	0494	35035	2773			14907														
		STD	1300	0495	3512	2780	0004657	1687	14925														
		OBS	1300	0495	35119	2780			14925														
		STD	1400	0457	3506	2780	0004647	1734	14925														
		OBS	1400	0457	35064	2780			14925														
		STD	1500	0430	3504	2781	0004564	1780	14931														
		OBS	1500	0430	35039	2781			14931														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MM/DD	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	

WATER		WIND		BARO- METER	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB			
DT	SD	21	515	291	256	239	7	24	

MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	SIO ₄ -S μg - at/l	pH	χ _{CL}
		STD	0000	2610	3621	2394	0039805	0000	15387								
	072	OBS	0000	2610	36211	2394			15387								
		STD	0010	2463	3604	2426	0036768	0038	15353								
		OBS	0010	2463	36039	2426			15353								
		STD	0020	2365	3630	2475	0032148	0073	15334								
	003	OBS	0020	2365	36299	2475			15334								
		STD	0030	2170	3645	2542	0025768	0102	15288								
		OBS	0030	2170	36450	2542			15288								
		STD	0050	2020	3651	2588	0021523	0149	15253								
		OBS	0050	2020	36508	2588			15253								
		STD	0075	1920	3658	2619	0018624	0199	15230								
		OBS	0075	1920	36575	2619			15230								
		STD	0100	1870	3657	2632	0017497	0244	15220								
		OBS	0100	1870	36574	2632			15220								
		STD	0125	1832	3656	2640	0016806	0287	15213								
		OBS	0125	1832	36555	2640			15213								
		STD	0150	1816	3656	2644	0016510	0329	15213								
		OBS	0150	1816	36555	2644			15213								
		STD	0200	1779	3653	2651	0015999	0410	15210								
		OBS	0200	1779	36528	2651			15210								
		STD	0250	1755	3649	2654	0015864	0490	15211								
		OBS	0250	1755	36492	2654			15211								
		STD	0300	1745	3649	2657	0015806	0569	15216								
		OBS	0300	1745	36491	2657			15216								
		STD	0400	1585	3614	2668	0014997	0723	15180								
		OBS	0400	1585	36142	2668			15180								
		STD	0500	1443	3591	2681	0013932	0868	15149								
		OBS	0500	1443	35905	2681			15149								
		STD	0600	1145	3542	2704	0011767	0996	15059								
		OBS	0600	1145	35422	2704			15059								
		STD	0700	0905	3516	2725	0009668	1103	14986								
		OBS	0700	0905	35159	2725			14986								
		STD	0800	0670	3502	2750	0007186	1188	14911								
		OBS	0800	0670	35022	2750			14911								
		STD	0900	0540	3502	2766	0005522	1251	14875								
		OBS	0900	0540	35020	2766			14875								
		STD	1000	0493	3502	2772	0005054	1304	14873								
		OBS	1000	0493	35015	2772			14873								
		STD	1100	0464	3502	2775	0004755	1353	14877								
		OBS	1100	0464	35019	2775			14877								
		STD	1200	0443	3502	2778	0004563	1400	14886								
		OBS	1200	0443	35022	2778			14886								
		STD	1300	0427	3502	2779	0004476	1445	14896								
		OBS	1300	0427	35019	2779			14896								
		STD	1400	0415	3502	2780	0004443	1489	14907								
		OBS	1400	0415	35015	2780			14907								
		STD	1500	0414	3503	2782	0004407	1534	14924								
		OBS	1500	0414	35031	2782			14924								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10'	1'	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	8017	EV	3918 N	05010 W	114	90	07	26	085	1967	IIP	10026	5431	37	23	2	2		X1	8	8	0008
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB																
		21	515	291	256	239	7	07														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY x 10 ³	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C					
		STD	0000	2611	3619	2392	0039986	0000	15387													
085		OBS	0000	2611	36190	2392			15387													
		STD	0010	2576	3617	2401	0039128	0040	15381													
		STD	0020	2541	3615	2410	0038280	0078	15374													
		STD	0030	2506	3613	2420	0037440	0116	15367													
		STD	0050	2438	3608	2437	0035916	0189	15354													
		STD	0075	2354	3603	2458	0033996	0277	15337													
		STD	0100	2272	3598	2476	0032182	0360	15320													
		STD	0125	2192	3593	2497	0030470	0438	15304													
		STD	0150	2113	3589	2515	0028759	0512	15287													
		STD	0200	1962	3579	2548	0025794	0648	15253													
		STD	0250	1817	3571	2579	0022994	0770	15219													
		STD	0300	1680	3562	2606	0020605	0879	15186													
		STD	0400	1427	3547	2651	0016466	1065	15122													
		STD	0500	1203	3534	2687	0013213	1213	15062													
		STD	0600	1008	3523	2714	0010695	1333	15008													
		STD	0700	0842	3514	2734	0008779	1430	14962													
		STD	0800	0704	3507	2749	0007333	1511	14925													
		STD	0900	0595	3501	2759	0006349	1579	14897													
		STD	1000	0515	3498	2766	0005603	1639	14881													
085		OBS	T1012	0507	34974	2767			14880													
		STD	1100	0484	3498	2770	0005304	1693	14885													
		STD	1200	0461	3498	2773	0005108	1745	14892													
085		OBS	T1286	0444	34983	2775			14900													
		STD	1300	0442	3498	2775	0004959	1796	14901													
		STD	1400	0429	3498	2776	0004885	1845	14913													
		STD	1500	0417	3497	2777	0004893	1894	14924													
085		OBS	1730	0394	34966	2779			14953													
		STD	1750	0393	3497	2779	0004824	2015	14956													
		STD	2000	0375	3497	2781	0004786	2135	14991													
085		OBS	T2158	0365	34966	2782			15014													
		STD	2500	0344	3496	2784	0004750	2374	15064													
085		OBS	T2665	0333	34962	2785			15087													
		STD	3000	0309	3495	2786	0004658	2609	15135													
085		OBS	3689	0254	34901	2787			15231													

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR /10	CRUISE NO.			STATION NUMBER	OBSERVATIONS				TYP	AMT		
																WATER	WIND	BARO- METER					AIR TEMP. °C
		COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mbal)	DRY BULB	WET BULB			7	36											
		DT	SD	22	512	288	272	250			7	36											
MESSNGR TIME OF HR /10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D. DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH							
127		STD	0000	2485	3549	2378	0041331	0000	15350														
		OBS	0000	2485	35488	2378			15350														
004		STD	0010	2205	3525	2441	0035293	0038	15280														
		OBS	0010	2205	35250	2441			15280														
		STD	0020	1973	3592	2555	0024484	0068	15228														
		OBS	0020	1973	35920	2555			15228														
		STD	0030	1805	3575	2585	0021672	0091	15180														
		OBS	0030	1805	35750	2585			15180														
		OBS	0040	1664	35760	2620			15140														
		STD	0050	1645	3580	2627	0017740	0131	15137														
		OBS	0050	1645	35795	2627			15137														
		OBS	0059	1673	35901	2629			15148														
		OBS	0063	1635	35900	2638			15137														
		OBS	0070	1695	36080	2637			15158														
		STD	0075	1664	3618	2652	0015439	0172	15151														
		OBS	0075	1664	36181	2652			15151														
		OBS	0080	1678	36230	2653			15157														
		OBS	0084	1643	36130	2653			15146														
		OBS	0091	1670	36270	2658			15157														
		STD	0100	1655	3625	2660	0014831	0210	15153														
		OBS	0100	1655	36248	2660			15153														
		STD	0125	1560	3604	2666	0014318	0446	15126														
		OBS	0125	1560	36041	2666			15126														
		OBS	0135	1515	35950	2669			15112														
		OBS	0140	1528	36000	2670			15118														
		STD	0150	1509	3595	2670	0013962	0482	15113														
		OBS	0150	1509	35950	2670			15113														
		STD	0200	1323	3561	2684	0012777	0349	15057														
		OBS	0200	1323	35610	2684			15057														
		STD	0250	1224	3545	2691	0012172	0411	15030														
	OBS	0250	1224	35450	2691			15030															
	OBS	0270	1246	35554	2695			15042															
	STD	0300	1199	3552	2701	0011326	0470	15030															
	OBS	0300	1199	35519	2701			15030															
	STD	0400	0962	3523	2721	0009507	0574	14959															
	OBS	0400	0962	35227	2721			14959															
	OBS	0470	0836	35130	2734			14922															
	STD	0500	0720	3500	2741	0007602	0659	14880															
	OBS	0500	0720	35000	2741			14880															
	STD	0600	0620	3501	2756	0006278	0729	14858															
	OBS	0600	0620	35010	2756			14858															
	OBS	0670	0555	35009	2764			14843															
	STD	0700	0536	3501	2766	0005310	0787	14840															
	OBS	0700	0536	35008	2766			14840															
	STD	0800	0504	3501	2770	0004973	0838	14844															
	OBS	0800	0504	35014	2770			14844															
	STD	0900	0475	3502	2774	0004642	0886	14849															
	OBS	0900	0475	35024	2774			14849															
	STD	1000	0455	3502	2776	0004525	0932	14857															
	OBS	1000	0455	35020	2776			14857															
	STD	1100	0439	3502	2778	0004432	0977	14867															
	OBS	1100	0439	35019	2778			14867															
	STD	1200	0427	3501	2779	0004429	1021	14879															
	OBS	1200	0427	35012	2779			14879															
	STD	1300	0417	3501	2780	0004404	1065	14891															
	OBS	1300	0417	35011	2780			14891															
	STD	1400	0406	3501	2781	0004362	1109	14904															
	OBS	1400	0406	35010	2781			14904															
	STD	1500	0403	3501	2781	0004414	1153	14919															
	OBS	1500	0403	35010	2781			14919															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE DD-MO-YY	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT.	PER	SEA		TYPE	AMT		
31	8017	EV	4011 N	04955 W	149	09	07	26	167	1967	11P	10030	4901	15	23	2	2			X1	0	3		0010	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
		DT	SD	23	512	278	250	239	8	29															
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C								
		STD	0000	2495	3577	2395	0039626	0000	15356																
167		OBS	0000	2495	35765	2395			15356																
		STD	0010	2095	3581	2514	0028348	0034	15258																
		OBS	0010	2095	35810	2514			15258																
002		STD	0020	1765	3577	2597	0020556	0058	15167																
		OBS	0020	1765	35770	2597			15167																
		OBS	0025	1720	35788	2609			15155																
		STD	0030	1744	3589	2611	0019230	0078	15164																
		OBS	0030	1744	35890	2611			15164																
		STD	0050	1622	3585	2636	0016865	0114	15130																
		OBS	0050	1622	35845	2636			15130																
		OBS	0062	1578	35900	2651			15119																
		OBS	0070	1604	35980	2651			15130																
		STD	0075	1576	3597	2657	0015011	0154	15122																
		OBS	0075	1576	35972	2657			15122																
		STD	0100	1487	3588	2670	0013854	0190	15097																
		OBS	0100	1487	35880	2670			15097																
		STD	0125	1427	3577	2674	0013471	0225	15081																
		OBS	0125	1427	35772	2674			15081																
		STD	0150	1364	3567	2680	0013012	0258	15063																
		OBS	0150	1364	35670	2680			15063																
		STD	0200	1278	3552	2686	0012558	0322	15041																
		OBS	0200	1278	35520	2686			15041																
		STD	0250	1217	3546	2693	0011967	0383	15027																
		OBS	0250	1217	35460	2693			15027																
		STD	0300	1165	3542	2700	0011456	0441	15017																
		OBS	0300	1165	35415	2700			15017																
		STD	0400	0895	3513	2725	0009126	0544	14932																
		OBS	0400	0895	35130	2725			14932																
		STD	0500	0670	3499	2747	0006967	0625	14861																
		OBS	0500	0670	34990	2747			14861																
		STD	0600	0570	3496	2758	0005965	0689	14837																
		OBS	0600	0570	34962	2758			14837																
		STD	0700	0525	3500	2767	0005227	0745	14836																
		OBS	0700	0525	35000	2767			14836																
		STD	0800	0490	3502	2772	0004765	0795	14838																
		OBS	0800	0490	35018	2772			14838																
		STD	0900	0470	3502	2775	0004616	0842	14847																
		OBS	0900	0470	35019	2775			14847																
		OBS	0977	0458P	35028	2777P																			
		OBS	0985	0472P	3507P	2778P																			
		STD	1000	0468	3504	2776	0004581	0888	14863																
		OBS	1000	0468	35035	2776			14863																
		STD	1100	0444	3501	2777	0004562	0934	14869																
		OBS	1100	0444	35010	2777			14869																
		STD	1200	0423	3501	2779	0004392	0979	14877																
		OBS	1200	0423	35010	2779			14877																
		STD	1300	0412	3501	2780	0004383	1023	14889																
		OBS	1300	0412	35005	2780			14889																
		STD	1400	0402	3500	2781	0004376	1066	14902																
		OBS	1400	0402	35001	2781			14902																
		STD	1500	0397	3500	2781	0004393	1110	14917																
		OBS	1500	0397	35002	2781			14917																

REFERENCE	SHIP	LATITUDE	LONGITUDE	TIME	STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE			WEA-	CLOUD	NODC			
					MO	DAY	HR	1/10		CRUISE	STATION			DIR	HGT	PER				SEA	TYPE	AMT
CTRY	ID.				10"	1"					NO.	NUMBER	TO	OF								
CODE	NO.												BOTTOM	SAMPLES								
318017	EV	4011 N	04955 W		149	09	07	26	178	1967	11P	10030	4901	41	23	2	4	X1	8	2		0011
					WATER		WIND		BARO-		AIR TEMP. °C		VIS	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR	TRANS.	DIR.	SPEED OF FORCE	METER	DRY BULB	WET BULB											
					CODE								CODE									
								23	512	278	250	239	8	07								
MESSAGE	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₃ -N	SiO ₄ -Si	pH	S						
TIME	NO.																					
HR	1/10																					
		STD	0000	2497	3573	2392	0039929	0000	15356													
178		OBS	0000	2497	35731	2392			15356													
		STD	0010	2466	3572	2401	0039152	0040	15350													
		STD	0020	2435	3571	2409	0038375	0078	15344													
		STD	0030	2404	3570	2418	0037604	0116	15338													
		STD	0050	2344	3569	2435	0036068	0190	15327													
		STD	0075	2269	3566	2454	0034310	0278	15312													
		STD	0100	2196	3564	2473	0032574	0362	15297													
		STD	0125	2125	3562	2492	0030930	0441	15283													
		STD	0150	2055	3560	2509	0029347	0516	15268													
		STD	0200	1919	3556	2542	0026387	0656	15238													
		STD	0250	1789	3552	2572	0023703	0781	15209													
		STD	0300	1664	3548	2599	0021255	0893	15180													
		STD	0400	1433	3540	2644	0017101	1085	15123													
		STD	0500	1224	3534	2682	0013615	1239	15069													
		STD	0600	1038	3527	2712	0010929	1361	15019													
		STD	0700	0876	3522	2735	0008744	1460	14976													
		STD	0800	0736	3516	2751	0007153	1539	14938													
		STD	0900	0619	3512	2764	0005879	1604	14908													
		STD	1000	0525	3508	2773	0005001	1659	14887													
		STD	1100	0454	3504	2778	0004470	1706	14874													
178		OBS	T1162	0422																		
		STD	1200	0417	3501	2780	0004315	1750	14875													
		STD	1300	0406	3499	2779	0004416	1794	14886													
		STD	1400	0397	3497	2779	0004538	1838	14899													
178		OBS	T1466	0391	3496.1	2779			14908													
		STD	1500	0390	3496	2779	0004594	1884	14913													
		STD	1750	0378	3497	2780	0004627	1999	14950													
178		OBS	T1974	0365	3496.9	2782			14983													
		STD	2000	0363	3497	2782	0004604	2115	14986													
178		OBS	T2495	0328	3495.4	2784			15056													
		STD	2500	0328	3495	2784	0004610	2345	15057													
		STD	3000	0288	3494	2787	0004409	2571	15126													
178		OBS	T3085	0282	3493.5	2787			15138													
		STD	4000	0231	3491	2790	0004433	3003	15276													
178		OBS	4055	0229	3490.7	2790			15285													

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DATE MO DAY HR.1/10	YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL.	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.						CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318017	EV		4044 N	05000 W	150 00 07 26 203	1967	IIP	10031	3713	15	24	0	2		X1	013		0012
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	ORY BULB	WET BULB											
		DT	SD	24	510	271	256	239	7	40								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ⁷	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C	
		STD	0000	2477	3568	2395	0039717	0000	15350									
	203	OBS	0000	2477	35680	2395			15350									
		STD	0010	2117	3562	2494	0030294	0035	15262									
		OBS	0010	2117	35620	2494			15262									
		STD	0020	1665	3562	2609	0019349	0060	15136									
	003	OBS	0020	1665	35622	2609			15136									
		OBS	0023	1643	35700	2620			15131									
		OBS	0025	1714	35991	2626			15156									
		STD	0030	1695	3599	2630	0017373	0078	15151									
		OBS	0030	1695	35991	2630			15151									
		OBS	0037	1640	35950	2640			15135									
		STD	0050	1645	3611	2651	0015440	0111	15141									
		OBS	0050	1645	36111	2651			15141									
		STD	0075	1562	3600	2662	0014503	0148	15118									
		OBS	0075	1562	36000	2662			15118									
		OBS	0087	1517	35920	2666			15105									
		STD	0100	1535	3605	2672	0013635	0184	15114									
		OBS	0100	1535	36050	2672			15114									
		STD	0125	1443	3579	2672	0013669	0218	15086									
		OBS	0125	1443	35790	2672			15086									
		STD	0150	1372	3571	2681	0012865	0251	15066									
		OBS	0150	1372	35712	2681			15066									
		OBS	0180	1269	35540	2689			15035									
		OBS	0190	1304	35660	2691			15049									
		STD	0200	1280	3558	2690	0012157	0313	15042									
		OBS	0200	1280	35580	2690			15042									
		OBS	0205	1245	35500	2691			15030									
		OBS	0212	1265	35620	2696			15039									
		STD	0250	1141	3541	2704	0010931	0371	15000									
		OBS	0250	1141	35410	2704			15000									
		STD	0300	1034	3531	2715	0009896	0423	14969									
		OBS	0300	1034	35310	2715			14969									
		STD	0400	0809	3509	2735	0008082	0513	14900									
		OBS	0400	0809	35090	2735			14900									
		OBS	0410	0780	35100	2740			14890									
		OBS	0420	0823	35190	2741			14909									
		STD	0500	0711	3514	2753	0006439	0586	14879									
		OBS	0500	0711	35140	2753			14879									
		STD	0600	0630	3516	2766	0005321	0645	14864									
		OBS	0600	0630	35158	2766			14864									
		OBS	0610	0641	3506P	2757P												
		OBS	0625	0594	35120	2768			14853									
		OBS	0635	0607	35123	2766			14860									
		OBS	0685	0569	35110	2770			14853									
		STD	0700	0576	3512	2770	0004980	0696	14858									
		OBS	0700	0576	35124	2770			14858									
		STD	0800	0520	3508	2773	0004730	0745	14851									
		OBS	0800	0520	35075	2773			14851									
		OBS	0806	0536	35120	2775			14859									
		OBS	0865	0496	35071	2776			14852									
		STD	0900	0490	3506	2776	0004554	0791	14856									
		OBS	0900	0490	35062	2776			14856									
		STD	1000	0468	3505	2777	0004463	0836	14863									
		OBS	1000	0468	35051	2777			14863									
		STD	1100	0445	3503	2778	0004442	0881	14870									
		OBS	1100	0445	35028	2778			14870									
		STD	1200	0435	3502	2779	0004452	0925	14882									
		OBS	1200	0435	35023	2779			14882									
		STD	1300	0421	3503	2781	0004309	0969	14893									
		OBS	1300	0421	35031	2781			14893									
		STD	1400	0424	3504	2781	0004379	1012	14912									
		OBS	1400	0424	35040	2781			14912									
		STD	1500	0406	3501	2781	0004461	1057	14920									
		OBS	1500	0406	35009	2781			14920									

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318017	EV		4118 N	05008 W	150	10	07 27 027	1967	11P	10032		3749	15	25	0	2		X1	0 3		0013	
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																	
DT	SD	22	S18	261			244	239	7	23												
MESSENGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY x 10 ³	Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S OUT					
		STD	0000	2260	3576	2464	0033069	0000	15298													
027		OBS	0000	2260	35758	2464			15298													
		STD	0010	1845	3611	2603	0019933	0027	15193													
		OBS	0010	1845	36111	2603			15193													
		STD	0020	1756	3635	2643	0016168	0045	15172													
003		OBS	0020	1756	36345	2643			15172													
		STD	0030	1738	3639	2650	0015494	0060	15168													
		OBS	0030	1738	36385	2650			15168													
		STD	0050	1737	3645	2656	0015060	0091	15172													
		OBS	0050	1737	36451	2656			15172													
		STD	0075	1727	3643	2656	0015066	0129	15173													
		OBS	0075	1727	36430	2656			15173													
		STD	0100	1663	3634	2660	0014796	0166	15163													
		OBS	0100	1663	36340	2660			15163													
		STD	0125	1550	3604	2667	0014145	0202	15123													
		OBS	0125	1550	36035	2667			15123													
		STD	0150	1397	3574	2678	0013172	0236	15075													
		OBS	0150	1397	35739	2678			15075													
		STD	0200	1253	3551	2690	0012188	0300	15032													
		OBS	0200	1253	35505	2690			15032													
		STD	0250	1172	3542	2699	0011423	0359	15011													
		STD	0300	1073	3533	2710	0010463	0413	14983													
		OBS	0300	1073	35325	2710			14983													
		STD	0400	0825	3508	2732	0008399	0508	14905													
		OBS	0400	0825	35080	2732			14905													
		STD	0500	0606	3495	2753	0006392	0582	14835													
		OBS	0500	0606	34950	2753			14835													
		STD	0600	0593	3509	2765	0005322	0640	14848													
		OBS	0600	0593	35090	2765			14848													
		STD	0700	0557	3510	2771	0004890	0691	14850													
		OBS	0700	0557	35102	2771			14850													
		STD	0800	0475	3504	2775	0004450	0738	14832													
		OBS	0800	0475	35035	2775			14832													
		STD	0900	0456	3503	2777	0004358	0782	14841													
		OBS	0900	0456	35030	2777			14841													
		STD	1000	0436	3502	2778	0004322	0825	14849													
		OBS	1000	0436	35015	2778			14849													
		STD	1100	0427	3503	2780	0004235	0868	14862													
		OBS	1100	0427	35025	2780			14862													
		STD	1200	0414	3502	2781	0004204	0910	14874													
		OBS	1200	0414	35020	2781			14874													
		STD	1300	0413	3502	2781	0004271	0953	14890													
		OBS	1300	0413	35022	2781			14890													
		STD	1400	0406	3503	2782	0004230	0995	14904													
		OBS	1400	0406	35028	2782			14904													
		STD	1500	0397	3503	2783	0004225	1038	14917													
		OBS	1500	0397	35025	2783			14917													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318017	EV		4118 N	05008 W		150	10	07	27	1967	11P	10032	3749	36	25	0	12		X1	7	1	0014
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								22	518	261	242	239	7	07								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³		Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S CODE				
042		STD	0000	2395	3531	2391	0040057		0000	15327												
		OBS	0000	2395	35308	2391				15327												
		STD	0010	2367	3530	2399	0039366		0040	15321												
		STD	0020	2339	3530	2407	0038624		0079	15316												
		STD	0030	2311	3529	2414	0037959		0117	15311												
		STD	0050	2256	3528	2429	0036602		0192	15300												
		STD	0075	2189	3527	2447	0034964		0281	15287												
		STD	0100	2122	3526	2465	0033358		0366	15273												
		STD	0125	2057	3525	2482	0031837		0448	15260												
		STD	0150	1993	3524	2498	0030370		0526	15247												
		STD	0200	1869	3522	2529	0027623		0671	15220												
		STD	0250	1750	3520	2557	0025104		0802	15194												
042		STD	0300	1636	3518	2582	0022799		0922	15167												
		STD	0400	1423	3514	2626	0018782		1130	15116												
		STD	0500	1229	3511	2664	0015387		1301	15068												
		STD	0600	1056	3508	2694	0012637		1441	15024												
		STD	0700	0902	3505	2717	0010416		1556	14983												
		STD	0800	0768	3503	2737	0008598		1651	14949												
		STD	0900	0654	3501	2751	0007190		1730	14921												
		STD	1000	0560	3500	2762	0006067		1797	14900												
		STD	1100	0486	3498	2770	0005331		1854	14886												
		STD	1200	0431	3498	2776	0004716		1904	14880												
		OBS	T1229	0419	34974	2777				14880												
		STD	1300	0413	3497	2777	0004624		1951	14889												
042		STD	1400	0406	3498	2778	0004618		1997	14903												
		STD	1500	0397	3498	2779	0004591		2043	14916												
		OBS	T1539	0394	34975	2779				14921												
042		STD	1750	0373	3498	2782	0004472		2156	14948												
		STD	2000	0351	3498	2784	0004359		2267	14981												
		OBS	T2054	0347	34980	2785				14989												
042		STD	2500	0318	3495	2785	0004465		2487	15052												
		OBS	T2568	0313	34946	2785				15062												
042		STD	3000	0280	3493	2787	0004331		2707	15122												
		OBS	T3080	0274	34932	2788				15134												
042		OBS	3585	0230	34991	2796				15204												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSOEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318017	EV		4145 N	05013 W	150	10	07	27	082	1967	11P 10033	3823	15	22	2	2		X1	0	3	0015

WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR	SPEED OF FORCE		DRY BULB	WET BULB			
DT	SD	23	517	237	233	228	7	27	

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ C DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C
		STD	0000	2152	3317	2298	0048900	0000	15241								
082		OBS	0000	2152	33170	2298			15241								
		OBS	0005	1356	33745	2533			15013								
		STD	0010	1345	3374	2534	0026414	0038	15010								
002		OBS	0010	1345	33737	2534			15010								
		STD	0020	1285	3360	2536	0026303	0064	14989								
		OBS	0020	1285	33600	2536			14989								
		STD	0030	1041	3475	2671	0013516	0084	14920								
		OBS	0030	1041	34752	2671			14920								
		STD	0050	1087	3506	2687	0012063	0110	14944								
		OBS	0050	1087	35061	2687			14944								
		STD	0075	1175	3533	2691	0011684	0139	14983								
		OBS	0075	1175	35332	2691			14983								
		STD	0100	1156	3528	2691	0011764	0168	14979								
		OBS	0100	1156	35283	2691			14979								
		STD	0125	1143	3527	2693	0011673	0198	14979								
		OBS	0125	1143	35272	2693			14979								
		STD	0150	1145	3528	2693	0011749	0227	14984								
		OBS	0150	1145	35275	2693			14984								
		STD	0200	0926	3501	2710	0010102	0282	14910								
		OBS	0200	0926	35010	2710			14910								
		STD	0250	0847	3508	2729	0008438	0328	14889								
		OBS	0250	0847	35082	2729			14889								
		STD	0300	0706	3482	2729	0008419	0370	14840								
		OBS	0300	0706	34819	2729			14840								
		STD	0400	0646	3500	2751	0006419	0444	14835								
		OBS	0400	0646	34999	2751			14835								
		STD	0500	0555	3501	2764	0005284	0503	14815								
		OBS	0500	0555	35010	2764			14815								
		STD	0600	0523	3503	2769	0004864	0554	14819								
		OBS	0600	0523	35029	2769			14819								
		OBS	0630	0563	35175	2776			14842								
		OBS	0660	0551	35143	2775			14842								
		STD	0700	0500	3506	2774	0004465	0600	14826								
		OBS	0700	0500	35060	2774			14826								
		STD	0800	0463	3504	2777	0004249	0644	14828								
		OBS	0800	0463	35042	2777			14828								
		STD	0900	0448	3505	2779	0004117	0686	14838								
		OBS	0900	0448	35049	2779			14838								
		STD	1000	0430	3504	2781	0004069	0727	14847								
		OBS	1000	0430	35039	2781			14847								
		STD	1100	0415	3503	2782	0004032	0767	14857								
		OBS	1100	0415	35032	2782			14857								
		STD	1200	0405	3502	2782	0004060	0808	14870								
		OBS	1200	0405	35024	2782			14870								
		STD	1300	0397	3502	2783	0004073	0848	14883								
		OBS	1300	0397	35021	2783			14883								
		STD	1400	0392	3502	2783	0004099	0889	14898								
		OBS	1400	0392	35021	2783			14898								
		STD	1500	0385	3503	2784	0004053	0930	14912								
		OBS	1500	0385	35027	2784			14912								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSden SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	IO NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.	DIR			HGT	PER	SEA	TYPE	AMT			
318017		EV	4210 N	05014 W	150	20	07	27	111	1967	11P	10034	3438	15	20	2	2		X1	0	3	0016
		WATER COLOR CODE	TRANS. IM.	DIR.	WIND SPEED OR FORCE	BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
							DRY BULB	WET BULB														
		DT	SD	21	S18	230	233	228	7	41												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C				
		STD	0000	2080	3355	2347	0044294	0000	15226													
111		OBS	0000	2080	33549	2347			15226													
		STD	0010	1478	3434	2553	0024652	0034	15060													
		OBS	0010	1478	34340	2553			15060													
003		STD	0020	1125	3440	2628	0017522	0056	14944													
		OBS	0020	1125	34400	2628			14944													
		STD	0030	0870	3400	2640	0016383	0073	14848													
		OBS	0030	0870	34000	2640			14848													
		OBS	0035	0766	33850	2644			14807													
		OBS	0040	0873	34140	2651			14852													
		OBS	0045	0820	34200	2664			14834													
		STD	0050	0840	3437	2674	0013247	0102	14844													
		OBS	0050	0840	34368	2674			14844													
		OBS	0058	0809	34360	2678			14834													
		STD	0075	0914	3472	2689	0011825	0133	14881													
		OBS	0075	0914	34717	2689			14881													
		OBS	0084	0928	34835	2696			14889													
		STD	0100	0835	3474	2704	0010506	0161	14856													
		OBS	0100	0835	34740	2704			14856													
		OBS	0114	0875	34832	2705			14874													
		STD	0125	0777	3476	2714	0009576	0186	14838													
		OBS	0125	0777	34758	2714			14838													
		OBS	0140	0735	34700	2715			14823													
		STD	0150	0816	3486	2716	0009429	0210	14858													
		OBS	0150	0816	34860	2716			14858													
		OBS	0183	0745	34890	2729			14837													
		STD	0200	0580	3461	2729	0008199	0254	14770													
		OBS	0200	0580	34607	2729			14770													
		OBS	0212	0668	34960	2745			14812													
		OBS	0245	0606	34844	2744			14791													
		STD	0250	0636	3492	2746	0006657	0291	14805													
		OBS	0250	0636	34919	2746			14805													
		OBS	0270	0655	34974	2748			14817													
		STD	0300	0582	3484	2747	0006623	0325	14791													
		OBS	0300	0582	34840	2747			14791													
		OBS	0325	0655	35067	2755			14827													
		OBS	0360	0625	35062	2759			14821													
		OBS	0370	0576	34985	2759			14802													
		STD	0400	0559	3501	2763	0005226	0384	14800													
		OBS	0400	0559	35007	2763			14800													
		OBS	0472	0477	34950	2768			14778													
		STD	0500	0484	3498	2770	0004665	0433	14786													
		OBS	0500	0484	34975	2770			14786													
		STD	0600	0460	3499	2773	0004416	0479	14792													
		OBS	0600	0460	34985	2773			14792													
		STD	0700	0454	3500	2775	0004371	0523	14807													
		OBS	0700	0454	34996	2775			14807													
		OBS	0750	0433	34990	2776			14806													
		OBS	0760	0444	35020	2778			14813													
		STD	0800	0435	3500	2777	0004216	0566	14815													
		OBS	0800	0435	35000	2777			14815													
		STD	0900	0418	3501	2779	0004051	0607	14825													
		OBS	0900	0418	35008	2779			14825													
		STD	1000	0416	3500	2779	0004154	0648	14841													
		OBS	1000	0416	35004	2779			14841													
		STD	1100	0388	3498	2780	0004087	0689	14845													
		OBS	1100	0388	34979	2780			14845													
		STD	1200	0386	3498	2781	0004123	0730	14861													
		OBS	1200	0386	34983	2781			14861													
		STD	1300	0383	3499	2782	0004137	0772	14877													
		OBS	1300	0383	34988	2782			14877													
		STD	1400	0382	3500	2783	0004124	0813	14894													
		OBS	1400	0382	35000	2783			14894													
		STD	1500	0379	3500	2783	0004172	0854	14909													
		OBS	1500	0379	35000	2783			14909													

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	DEPTH m	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		TYPE	AMT	

318017	EV	4210 N	05014 W	150	20	07	27	123	1967	118	10034	3436	33	20	2	2		X1	0	2	0017
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WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB			

21	518	230	233	228	7	07			
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MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ O DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C
123		STD	0000	2083	3350	2342	0044697	0000	15226								
		OBS	0000	2083	33504	2342			15226								
		STD	0010	2058	3352	2350	0044007	0044	15221								
		STD	0020	2033	3353	2357	0043321	0088	15216								
		STD	0030	2008	3354	2365	0042640	0131	15211								
		STD	0050	1959	3356	2379	0041317	0215	15201								
		STD	0075	1899	3359	2397	0039724	0316	15189								
		STD	0100	1840	3362	2414	0038175	0414	15176								
		STD	0125	1782	3365	2431	0036674	0507	15164								
		STD	0150	1726	3368	2446	0035243	0597	15152								
		STD	0200	1616	3374	2476	0032500	0766	15127								
		STD	0250	1511	3380	2504	0029944	0923	15104								
		STD	0300	1410	3386	2531	0027556	1066	15060								
		STD	0400	1222	3398	2578	0023257	1320	15035								
		STD	0500	1053	3410	2618	0019536	1534	14993								
		STD	0600	0902	3422	2652	0016317	1714	14956								
		STD	0700	0770	3434	2682	0013543	1863	14924								
		STD	0800	0655	3446	2707	0011126	1986	14897								
		STD	0900	0560	3458	2729	0009061	2087	14877								
		STD	1000	0482	3470	2748	0007267	2169	14864								
		STD	1100	0423	3481	2764	0005738	2234	14858								
		STD	1200	0383	3493	2777	0004454	2285	14859								
123		OBS	T1203	0382	34937	2778			14859								
		STD	1300	0379	3494	2778	0004433	2329	14874								
		STD	1400	0376	3495	2779	0004453	2374	14890								
		STD	1500	0373	3495	2780	0004463	2418	14906								
123		OBS	T1506	0373	34950	2780			14907								
		STD	1750	0362	3495	2781	0004514	2530	14943								
		STD	2000	0348	3495	2782	0004513	2643	14980								
123		OBS	T2010	0347	34952	2782			14981								
123		OBS	T2496	0311	34950	2786			15049								
		STD	2500	0311	3495	2786	0004364	2865	15049								
		STD	3000	0272	3493	2788	0004225	3080	15119								
123		OBS	T3016	0271	34931	2788			15121								
123		OBS	3319	0242	34921	2790			15161								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS SQUARE	STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318017	EV		42225N	050140W	150	20	07	27 145	1967	IIP	10035	2889	26	21	2	2		X1	7	3	0018
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. INT.	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB								
									23	518	220	250	239	7	05						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma_t$ OBS. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C			
144		STD	0000	2105	3465	2423	0037000		0000	15245											
		OBS	0000	2105	34645	2423				15245											
		STD	0010	2081	3465	2430	0036395		0037	15241											
		STD	0020	2056	3465	2437	0035776		0073	15236											
		STD	0030	2032	3465	2443	0035180		0108	15231											
		STD	0050	1985	3466	2456	0034032		0177	15221											
		STD	0075	1926	3466	2472	0032615		0261	15209											
		STD	0100	1869	3467	2487	0031264		0341	15197											
		STD	0125	1813	3468	2501	0029967		0417	15185											
		STD	0150	1757	3468	2515	0028686		0490	15173											
		STD	0200	1650	3470	2542	0026318		0628	15149											
		STD	0250	1547	3471	2566	0024111		0754	15126											
		STD	0300	1448	3472	2589	0022063		0869	15103											
		STD	0400	1264	3475	2629	0018450		1072	15059											
		STD	0500	1096	3477	2663	0015373		1241	15017											
		STD	0600	0946	3480	2691	0012790		1382	14980											
144		STD	0700	0812	3483	2714	0010614		1499	14947											
		STD	0800	0696	3485	2733	0008831		1596	14919											
		STD	0900	0597	3488	2748	0007362		1677	14896											
		STD	1000	0515	3490	2760	0006177		1745	14880											
144		STD	1100	0450	3493	2770	0005250		1802	14870											
		STD	1200	0402	3495	2777	0004544		1851	14868											
		OBS	T1219	0395	34958	2778				14868											
		STD	1300	0385	3495	2778	0004434		1896	14877											
144		STD	1400	0375	3494	2779	0004460		1940	14890											
		STD	1500	0366	3493	2779	0004494		1985	14903											
		OBS	1520	0364	34931	2779				14905											
144		STD	1750	0357	3494	2780	0004528		2098	14941											
		STD	2000	0343	3495	2783	0004459		2210	14978											
144		OBS	T2032	0341	34952	2783				14982											
144		STD	2500	0298	3494	2786	0004249		2428	15044											
		OBS	2640	0281	34935	2787				15061											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH M	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
31	8017	EV	42225N	050140W	150	20	07	27	155	1967	11P	10035	2889	15	21	2	2	1	0	3	0019
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB									
						DT	SD	23	S18	220	250	239	7	39							
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₃ -N µg - at/l	NO ₂ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S CODE			
		STD	0000	2143	3470	2416	0037627		0000	15256											
155		OBS	0000	2143	34695	2416				15256											
		STD	0010	1959	3461	2459	0033596		0036	15207											
		OBS	0010	1959	34610	2459				15207											
		STD	0020	1615	3463	2545	0025471		0065	15109											
002		OBS	0020	1615																	
		STD	0030	1368	3500	2627	0017671		0087	15036											
		OBS	0030	1368	34998	2627				15036											
		OBS	0034	1367	35240	2646				15040											
		OBS	0040	1286	35228	2662				15013											
		STD	0050	1330	3549	2673	0013413		0118	15033											
		OBS	0050	1330	35485	2673				15033											
		OBS	0069	1295	35530	2683				15025											
		STD	0075	1267	3551	2687	0012085		0150	15016											
		OBS	0075	1267	35510	2687				15016											
		OBS	0085	1284	35538	2686				15024											
		STD	0100	1235	3539	2684	0012428		0180	15008											
		OBS	0100	1235	35390	2684				15008											
		STD	0125	1201	3537	2689	0012008		0211	15000											
		OBS	0125	1201	35370	2689				15000											
		STD	0150	1183	3540	2695	0011528		0240	14998											
		OBS	0150	1183	35399	2695				14998											
		OBS	0159	1178	35368	2694				14998											
		OBS	0180	1130	3515P	2686P															
		STD	0200	1030	3524	2711	0010116		0294	14951											
		OBS	0200	1030	35240	2711				14951											
		OBS	0219	1035	35245	2710				14956											
		STD	0250	0930	3517	2722	0009081		0342	14921											
		OBS	0250	0930	35171	2722				14921											
		OBS	0271	0855	35092	2728				14896											
		STD	0300	0835	3511	2732	0008173		0386	14893											
		OBS	0300	0835	35106	2732				14893											
		OBS	0315	0777	35050	2737				14873											
		OBS	0355	0765	35114	2744				14876											
		STD	0400	0610	3493	2750	0006467		0459	14820											
		OBS	0400	0610	34928	2750				14820											
		STD	0500	0508	3495	2765	0005112		0517	14795											
		OBS	0500	0508	34954	2765				14795											
		OBS	0525	0554																	
		OBS	0574	0513	35018	2770				14810											
		STD	0600	0516	3504	2771	0004709		0566	14816											
		OBS	0600	0516	35038	2771				14816											
		OBS	0645	0483	35002	2772				14810											
		STD	0700	0485	3503	2774	0004469		0612	14820											
		OBS	0700	0485	35034	2774				14820											
		OBS	0757	0462	35020	2776				14820											
		STD	0800	0451	3501	2776	0004352		0656	14822											
		OBS	0800	0451	35008	2776				14822											
		STD	0900	0414	3497	2777	0004291		0699	14823											
		OBS	0900	0414	34969	2777				14823											
		STD	1000	0401	3497	2778	0004221		0741	14834											
		OBS	1000	0401	34970	2778				14834											
		STD	1100	0411	3500	2780	0004188		0784	14855											
		OBS	1100	0411	35004	2780				14855											
		STD	1200	0406	3501	2781	0004205		0825	14870											
		OBS	1200	0406	35006	2781				14870											
		STD	1300	0391	3499	2781	0004231		0868	14880											
		OBS	1300	0391	34989	2781				14880											
		STD	1400	0380	3498	2781	0004245		0910	14892											
		OBS	1400	0380	34980	2781				14892											
		STD	1500	0375	3498	2782	0004267		0953	14907											
		OBS	1500	0375	34980	2782				14907											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FOOT	MARS DEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
31	8017	EV	4233 N	05014 W		150	20	07	27	182	1967	IIP	10036	2395	15	22	4	2		X1	0 3	0020
		WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB																	
		DT	SD	21	S22	203				239	228	7	27									
MESSENGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C				
		STD	0000	2039	3306	2320	0046798		0000	15209												
182		OBS	0000	2039	33060	2320				15209												
		OBS	0005	1005	33060	2545				14882												
		STD	0010	0805	3303	2574	0022620		0035	14807												
003		OBS	0010	0805	33030	2574				14807												
		OBS	0015	1055	33600	2579				14908												
		STD	0020	0945	3453	2670	0013582		0053	14881												
		OBS	0020	0945	34530	2670				14881												
		STD	0030	0958	3458	2671	0013464		0066	14888												
		OBS	0035	0965	34600	2672				14892												
		OBS	0045	1105	35100	2686				14950												
		STD	0050	1161	3525	2688	0011972		0092	14973												
		STD	0075	1255	3552	2690	0011806		0121	15012												
		OBS	0075	1255	35517	2690				15012												
		OBS	0090	1165	35300	2691				14981												
		STD	0100	1205	3543	2693	0011577		0151	14998												
		OBS	0100	1205	35430	2693				14998												
		STD	0125	1185	3542	2696	0011347		0179	14995												
		OBS	0125	1185	35420	2696				14995												
		STD	0150	1125	3533	2701	0010987		0207	14977												
		OBS	0150	1125	35330	2701				14977												
		STD	0200	1005	3520	2712	0009990		0260	14941												
		OBS	0200	1005	35200	2712				14941												
		STD	0250	0986	3513	2710	0010298		0310	14941												
		OBS	0255	0973	35120	2711				14937												
		STD	0300	0773	3504	2737	0007737		0356	14869												
		OBS	0300	0773	35040	2737				14869												
		STD	0400	0585	3495	2755	0005980		0424	14810												
		OBS	0400	0585	34950	2755				14810												
		STD	0500	0503	3499	2769	0004784		0478	14794												
		OBS	0500	0503	34990	2769				14794												
		STD	0600	0450	3495	2771	0004557		0525	14788												
		OBS	0600	0450	34950	2771				14788												
		STD	0700	0437	3496	2774	0004433		0570	14799												
		OBS	0700	0437	34960	2774				14799												
		STD	0800	0435	3500	2777	0004216		0613	14815												
		OBS	0800	0435	35000	2777				14815												
		STD	0900	0449	3503	2777	0004307		0655	14838												
		OBS	0900	0449	35025	2777				14838												
		STD	1000	0423	3501	2779	0004211		0698	14844												
		OBS	1000	0423	35008	2779				14844												
		STD	1100	0423	3503	2780	0004184		0740	14861												
		OBS	1100	0423	35025	2780				14861												
		STD	1200	0415	3503	2781	0004180		0782	14874												
		OBS	1200	0415	35025	2781				14874												
		STD	1300	0403	3502	2782	0004157		0824	14886												
		OBS	1300	0403	35020	2782				14886												
		STD	1400	0389	3500	2782	0004214		0865	14896												
		OBS	1400	0389	35000	2782				14896												
		STD	1500	0375	3500	2783	0004157		0907	14907												
		OBS	1500	0375	34995	2783				14907												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT °/10	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYP
318017		EV	4243 N	05014 W		150	20	07	27	203	1967	IIP 10037	1298	13	25	4	2		X1	0	3	0021
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						DT	SD	22	S24	200	230	220	7	22								

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 ³	Σ Δ O OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	DOCS
		STD	0000	1947	3434	2442	0035231	0000	15199								
203		OBS	0000	1947	34339	2442			15199								
		STD	0010	1125	3440	2628	0017506	0026	14943								
		OBS	0010	1125	34399	2628			14943								
		STD	0020	0985	3434	2648	0015659	0043	14893								
002		OBS	0020	0985	34335	2648			14893								
		STD	0030	0874	3428	2662	0014373	0058	14853								
		OBS	0030	0874	34279	2662			14853								
		STD	0050	1005	3490	2689	0011843	0084	14913								
		OBS	0050	1005	34904	2689			14913								
		STD	0075	1095	3510	2688	0011972	0114	14952								
		OBS	0075	1095	35100	2688			14952								
		STD	0100	1085	3515	2693	0011527	0143	14953								
		OBS	0100	1085	35145	2693			14953								
		STD	0125	1016	3510	2702	0010751	0171	14931								
		OBS	0125	1016	35099	2702			14931								
		STD	0150	0958	3508	2710	0009994	0197	14914								
		OBS	0150	0958	35080	2710			14914								
		STD	0200	0815	3496	2724	0008773	0244	14867								
		OBS	0200	0815	34959	2724			14867								
		STD	0250	0626	3489	2745	0006757	0283	14801								
		OBS	0250	0626	34888	2745			14801								
		STD	0300	0540	3493	2759	0005433	0313	14775								
		OBS	0300	0540	34930	2759			14775								
		STD	0400	0492	3493	2765	0004972	0365	14772								
		OBS	0400	0492	34931	2765			14772								
		STD	0500	0455	3493	2769	0004657	0414	14773								
		OBS	0500	0455	34930	2769			14773								
		STD	0600	0440	3493	2771	0004595	0460	14783								
		OBS	0600	0440	34929	2771			14783								
		STD	0700	0431	3493	2772	0004570	0506	14796								
		OBS	0700	0431	34932	2772			14796								
		STD	0800	0419	3494	2774	0004475	0551	14808								
		OBS	0800	0419	34939	2774			14808								
		STD	0900	0411	3494	2775	0004439	0595	14821								
		OBS	0900	0411	34944	2775			14821								
		STD	1000	0406	3495	2776	0004466	0640	14836								
		OBS	1000	0406	34945	2776			14836								
		STD	1100	0403	3495	2776	0004516	0685	14851								
		OBS	1100	0403	34946	2776			14851								
		STD	1200	0399	3495	2777	0004536	0730	14866								
		OBS	1200	0399	34949	2777			14866								
		OBS	1298	0397	34950	2777			14882								

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	PORT SQUAD	MARSOEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318017	EV		4245 N	05014 W		150	20	07	27	213	1967	11P	10038	0841	05	23	3	2		X1	03		0022
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
		DT	SD	22	S18	203		228	21		22												
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	Δ D OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	1918	3264	2320	0046648	0000	15171														
	213	OBS	0000	1918	32642	2320			15171														
		OBS	0006	0919	32700	2531			14845														
		STD	0010	1246	3402	2576	0022465	0035	14980														
	002	OBS	0010	1246	3499P	2651P																	
		OBS	0015	1307	34779	2623			15011														
		STD	0020	1205	3454	2624	0017914	0055	14974														
		OBS	0020	1205	34540	2624			14974														
		STD	0030	1005	3448	2656	0014932	0071	14904														
		OBS	0030	1005	34480	2656			14904														
		OBS	0040	0904	34530	2676			14869														
		STD	0050	0986	3484	2687	0012013	0098	14905														
		OBS	0050	0986	34839	2687			14905														
		OBS	0065	1099	35100	2687			14951														
		STD	0075	1085	3508	2688	0011954	0128	14948														
		OBS	0075	1085	35079	2688			14948														
		OBS	0090	1150	35271	2691			14976														
		STD	0100	1125	3524	2693	0011535	0158	14968														
		OBS	0100	1125	35239	2693			14968														
		STD	0125	1039	3507	2696	0011351	0186	14939														
		OBS	0125	1039	35070	2696			14939														
		STD	0150	0871	3497	2716	0009454	0212	14880														
		OBS	0150	0871	34968	2716			14880														
		STD	0200	0763	3497	2732	0007972	0256	14847														
		OBS	0200	0763	34965	2732			14847														
		OBS	0218	0596	34885	2749			14783														
		OBS	0245	0634	35000	2753			14805														
		STD	0250	0612	3500	2755	0005781	0290	14797														
		OBS	0255	0598	34990	2757			14792														
		OBS	0270	0609	35007	2757			14799														
		STD	0300	0570	3498	2759	0005446	0318	14788														
		OBS	0300	0570	34978	2759			14788														
		STD	0400	0498	3496	2767	0004798	0369	14775														
		OBS	0400	0498	34964	2767			14775														
		OBS	0485	0466	34939	2769			14775														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT	
318017	EV		4255 N	05014 W	150	20	07 27	228	1967	IIP	10039	0256	02	23	3	4		X1	6	6	0023	
						WATER		WIND		BARO- METER (mb)	AIR TEMP °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								23	516	196	217	206	7	06								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg · at/l	TOTAL-P μg · at/l	NO ₂ -N μg · at/l	NO ₃ -N μg · at/l	SiO ₄ -Si μg · at/l	pH	S CC					
		STD	0000	1355	3228	2420	0037302	0000	14993													
	228	OBS	0000	1355	32277	2420			14993													
		STD	0010	1056	3270	2508	0028883	0033	14896													
		STD	0020	0772	3300	2577	0022404	0059	14796													
	228	OBS	0025	0636	33110	2604			14744													
		STD	0030	0437	3313	2629	0017447	0079	14664													
		STD	0050	0016	3323	2669	0015587	0110	14484													
	228	OBS	0050	0016	33228	2669			14484													
		STD	0075	0331	3379	2692	0011503	0141	14635													
	228	OBS	0075	0331	33794	2692			14635													
		STD	0100	0455	3399	2695	0011251	0169	14694													
	228	OBS	0100	0455	33992	2695			14694													
		STD	0125	0540	3418	2700	0010813	0197	14736													
		STD	0150	0585	3436	2709	0010036	0223	14761													
	228	OBS	T0155	0589	34393	2711			14764													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
318017	EV		4305 N	05014 W	150	30	07 28	005	1967	IIP	10040	0073	01	24	3	3		X1	6	7	0024
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET SULB									
								24	515	193	206	200	7	05							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{at}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{at}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{at}^{-1}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at}^{-1}$	pH	S °C				
		STD	0000	1818	3224	2314	0047396	0000	15137												
	005	OBS	0000	1818	32241	2314			15137												
		STD	0010	0925	3243	2509	0028813	0038	14845												
	005	OBS	0010	0925	32431	2509			14845												
		STD	0020	0316	3284	2617	0018538	0062	14607												
	005	OBS	0025	0109	32981	2644			14519												
		STD	0030	0092	3299	2646	0015806	0079	14512												
		STD	0050	0048	3301	2650	0015387	0110	14496												
	005	OBS	0050	0048	33013	2650			14496												
	005	OBS	0065	0041	33019	2651			14495												

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Woods' Atlas of the World
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